



1

SEQUENCE LISTING

<110> Sun, Yongming  
Recipon, Herve  
Ghosh, Malavika  
Liu, Chenghua

<120> Compositions and Methods Relating to Colon Specific Genes and Proteins

<130> DEX-0255

<140> US 10/016634

<141> 2001-10-31

<150> US 60/244,258

<151> 2000-10-31

<160> 176

<170> PatentIn version 3.1

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tatattcaac ttattgagat tattatagaa atgaggtata tttgagaggg tcaaatattc     300
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 acagagattg gcctacaaag gtcagatggc ttccagggca cactgagcgg cccttgtgtg 660  
 tcggaatgtt cccttctgtt tgtcccttcc aggcctggaca ctttgggagc agaagtcaaa 720  
 gacaccttta tcattgtacc ctcagcacct ggtgtagtgc ctgggattta gtagttctga 780  
 ggagcgtgtg ttgaatgaat ggagggttaag taacttagac attagatagt aggactctg 839

<210> 28  
 <211> 191  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (175)..(175)  
 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
 <223> n=a, c, g or t

<400> 28  
 gacacttcat gttccagctt ctgcgttcaa gtcctgaag gtcagtgcct aagagcaggg 60  
 tcaaggagtg cagaacccat tggtagagatt tacaggaccc cccacccaac cgtagcatg 120  
 ccgtctgtag catgggaggg gcttgagca tagcagggcc tctcacgggc tttgntttca 180  
 ggtagacatt t 191

<210> 29  
 <211> 998  
 <212> DNA  
 <213> Homo sapiens

<400> 29  
 ggccgcata tttttttttt tttttttttt ttttaaaggt agaaaataac acaacctttt 60  
 attttttatt ttcatttggt ttgagatgga gtttcaactc tgcacccag gctggagtgc 120  
 aatgggtgtga tctcggtca ctgcaacctc cacctcccag gctcaagtga ttctcctgcc 180  
 ttggcctccc aagtagctgg gattacaggc atgcactaca acgcccagct aattttttgca 240  
 ttttttagtag agatagggtt tcaccatggt ggccaggctg gtctcaact cctgacttca 300  
 ggtgatccat ccattctggc ctcccaaagt gctgggatta caggcgtgac agctgtgccg 360  
 ggcccacctt ttaaatgtca acctgaaacc aaagcccggt agaggccctg ctatgctcca 420  
 ggcccctccc atgctacaga cggtatgcta acggttgggt ggggggtcct gtaaatctca 480  
 ccaatgggtt ctgcactcct tgacctgct ctttaagcact gacctcagg agcttgaagc 540  
 gagaagctgg aacaatgaag tgtctattct gcttcttctt gcaaagtctg caactacaga 600  
 aagacagagc aaattccaga ttgtgagcag ccacctgcat cctctatgcc tgagcggccc 660  
 agccatgaga gccagccgac cccacagatg atgccccctt cagcaccatc cagggccgag 720  
 gagctggggc aaaggcctgg atagcagtgc ctctggtttg caggtagcgc agagcccagg 780  
 ggggtcccaa gtcagcagtc gaggttctgc aatgctcaga acacaggacc aacagacagg 840  
 tctgtactgc ccaccttca gttctttaca gtgaagagaa gcgctggact tcagagacac 900  
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 atggacaagg aagtctaggt ttccctcttt ctatcatc 998

<210> 30  
 <211> 282  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (17)..(17)  
 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (29)..(29)  
 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (110)..(110)  
 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (128)..(217)  
 <223> n=a, c, g or t

<400> 30  
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 cttaaaaaact acacatagaa acagggtaga atggtagtta tccaggctcn ggaggaagag 120  
 aaaacaannn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngta tatggaaaat ttgctgagag 240  
 actagatttt aggtattcta cctcaattaa aaaggtaatt gt 282

<210> 31  
 <211> 1225  
 <212> DNA  
 <213> Homo sapiens

<400> 31  
 ggggaaagac caaccagttg gggctttctc ccaggggctcc cgggggctgt gtctgagtgt 60  
 ctgtgttggc tgtttggttt gctttgggtt tgtttctgga gggtgcttgc aggtttttgg 120  
 aggaagtgac tagtttggtt aagagctggg aactgagtca ggtaagccgt gtcattgtgt 180

```

aactccacca gaaaatggag gagagcgggt ttccaggaga caaagctgag atgagaagtg      240
tttataaaat tatggatgtc tccattttga agctctgttg gtgatggctg gaggaggagg      300
aggettgtct gectactect tctctcttcc cagagggaaa ccttgtggtg gttcctcact      360
gtctattcat tatgcaagga aatgagggct ttttaagggtt cctcagattt ttctccacca      420
aagagtgtct tcacaagtta ttgaggcggt tgtttccatt ttaaagtaaa cttttggaat      480
tttttttctc cttttgagtg gacctgaagg gttttgacct ccttcaggaa aggcaaggca      540
aaaacttaaa acagttcact gaggtctcac acaactttaa gctgctccag gtctcctgaa      600
agtcaccagg aaatgtgatt tcttccttgt gaagatgggtg atggcctaa gctgagattt      660
ttttgagttc tagggtttgg ttatcatcat gttttgatgc attgcaagac tttattgtct      720
gatttgagtt gatttctgca aatataaaaa ataataagaa taatcctgca agatctcaga      780
ggaactctaa gactggctaa caccagtttc tccaggttct ccatttctct tcaggtcggt      840
ccatttgtat gttaggcctt ctttcagttt ctttgtttcc ctttccctt tccgtcggct      900
aatttttctc gtgttctgaa gtactcttaa gtcttcagaa atatcagtat gtcttcttaa      960
caatgtcgct atggaaacaa attttaaaaa catgatgtca gttgagaaaa ccttatgtcc     1020
aggatcttcc acctttttta ttgggaggaa tttattaatc atgtaggaag acattttgtg     1080
aggataattt gaaaaaagga cccagtgtca cctagtcca cacacattga tgggagctct     1140
tcacatatta gttttagaga atgtacataa ttgaccaag caaagaacta aatcccgaag     1200
tgcttcagga atttttaaaa gccaa                                           1225

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<210> 32
<211> 844
<212> DNA
<213> Homo sapiens

```

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<400> 32
tctgccatgg tgacaattat tttaaattta gatgagatca tcataacatg acacataaaa      60
attgtttcat catgcatatc aagtttgata tgtagcttaa atttattttg cacacactag     120
aatttgtcct ggttttctag tacctcaagg cagatatgca aagggtgtta ggagacatac     180
tctcagacaa accattatta ttttaaagga tagaacaaaa caatcgctag ttaaggaaga     240
tgttttgtaa taattaaact tgtaattatt tgacttgaaa tatttaatca tttttttggg     300
aaagaatgga tagattttgt taatgttagc actcttaaaa ttaagcagtg gcttttttcc     360
ccgtgtctcc catattctcc ttgtgtttga aacataaaac aaacactaaa cctaagcaaa     420
agttgtctggg tttgttttca taattgaggt gagtttttcc ctcaactatt acaataaaag     480
aaaacttttt atgattttta tgataatgtt ttgtgggtggg ttaaagacct cctaacaaca     540

```

```

gggggttttt atacaacaac aagaagtttt taaataattg agttttttaa gtggaaagca      600
gcagtaaatt aaactagaag gatataTTTT atacctagaa ataaataaag ctcaacttgt      660
tttgtaagcc tgttttaaaa atatttaatt atttaatttg tgcaagtata gagttctcct      720
atggcaaaac tataccatca tcttctccaa ttgtgcatgg cagctgtact aagttctgca      780
aaaacaagac atatggatgt gtttcatacc ttctcagaat tggatatca agacacattt      840
aat                                                                                   844

```

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<210> 33
<211> 2483
<212> DNA
<213> Homo sapiens

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<400> 33
gatctagaac tagtcatcgc gagcgccctt tttttttttt ttttttaaga tggagtttcg      60
ctcttggtgc ccaggttgga gtgcaatggc gcgatcttgg ctactgcaa cctctgcctt      120
gcagttcaag caattctact gctcagcct ctcaagtage tgggactata gacattcacc      180
accacacca gctaattttt tgtattttta gaaaattttg tatatttaga aaaggtttca      240
ccatgttggc caggctggtc ttgcactcct gacctcaggt gatccgccca cctcagcctc      300
ccaaagtgct gggattacag gctgagcca ctgtgccag cctcaagta actcttaaac      360
ctactgaagt tagacaatca ataactgaaa tgacatcatc tttcttgaat gtttaaggaa      420
ataaagttcc ttcttctgac aaactttaag tgtgttcttg atttcttgc ctccctcttc      480
ctctgggagt tttcttcctt agctgtcac tttcattatc aacgaaatat tcctcttcac      540
gcctttttac cttataccta caacatgctc agttctctct cttacaaga aaatataagt      600
tttcaccaac ctatttatca aatttacatc cccctccctt tctacttctt tttgtaaaaa      660
aagagcatto aacctattgt ctgtctccat gccctcacat tatcagtgca agcaccgcga      720
actgtggctc tccaccatgt gagctcaacc tatcatcaca actgtatctc cctaactact      780
catttagatt aagccatttt tcacaagttt ctaaaattat ctcttccatt tctcagtata      840
accttttctt tcccttcaca gtttcttgaa ccaatctcac tagtcttca acgttcactt      900
ccaaggccac cccgaacaca tcttttctct ttccttaaat aaattctact ggattctttc      960
tgtttttcac tggaaacttc tcatactcca ttgggttctt tctcatgaca tttattttac     1020
atccctagta ttctggtttc ttacattttt tttcctatct actaaacaat aacttctttg     1080
agaactggac cagtgtctct tatatttata tccctaataa tacttattaa acacgtagtc     1140
tattctcaac attgaattcc atcttatact caaagaataa tactttaaca tagccattgt     1200
tcatagtgta tatataatta agaacacatt ccataatttt cttgagatta tatagtgtta     1260

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```

aatttttcaa aattatagga tatgatctaa agatatattt taaaactcaa acctgtaatt 1320
ttatcttcag ttatgctata gcatgtacat ttccattctc ttgtcgaagt ttctttcggt 1380
cctcagcttc tcttcatat ttctgacgt attgtcttct aagccttcag agaacaaggc 1440
attctaattgt tatcaagggt ctattcatct atatgtttga ttgggggttt tatgagtaga 1500
gggggttcca cttcatgagt agtgatagac cagcaatcac tatacttgac actaaaccta 1560
aacctggcta taaaatatta ccaatttcta agggggtatt tatgttgact gtatataaat 1620
ccatttccag agggcttata tttaaatgtg tcttgatata ccaattctga gaaggtaga 1680
aacacatcca tatgtcttgt ttttgcagaa cttagtacag ctgccatgca caattggaga 1740
agatgatggt atagttttgc cataggagaa ctctatactt gcacaaatta aatgattaaa 1800
tattttttaa acaggcttac aaaacaagtt gagctttatt tatttctagg tataaaatat 1860
atccttctag tttaatttac tgctgcttct cactttaaaa actcaattat ttaaaaaactt 1920
cttgttgttg tataaaaaacc cctgttgtt agggagtctt taaccaccca caaaacatta 1980
tcattaaaaat cataaaaagt tttcttttat tgtaatagtt gagggaaaaa ctcacctcaa 2040
ttatgaaaac aaaccagca acttttgctt aggttttagtg ttgttttat gtttcaaaca 2100
caaggagaat atgggagaca cggggaaaaa agccactgct taattttaag agtgctaaca 2160
ttaacaaaat ctatccattc tttcccaaaa aatgatttaa atatttcaag tcaataaatt 2220
acaagtttaa ttattacaaa acatcttctt taactagcga ttgttttgtt ctatccttta 2280
aaataataat ggtttgtctg agagtatgtc tctaaacac ctttgcatat ctgccttgag 2340
gtactagaaa accaggacaa attctagtgt gtgcaaaata aatttaagct acatatcaaa 2400
cttgatatgc atgatgaaac aatttttatg tgtcatgtta tgatgatctc atctaaattt 2460
aaaataattg tcaccatggc aga 2483

```

```

<210> 34
<211> 591
<212> DNA
<213> Homo sapiens

```

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<400> 34
aatccattta aagtcaacta aatgttatTTT gggtaatatg tccctcatgt taaatttgcc 60
caaatatata tctcacctct taaaattcgt ttagtttgaa attaaaatta gtattgtttt 120
tctgcatgta ctctagggtt gggtaaagaa gggaacaagg gaatggggaa acgtagagat 180
tcttggaacta acagagaaag acagcttgag aataaaagta tgcaaaagat aatctacaac 240
aaaataatgc acttaactct tgttactaaa caaataagct acccacattt cagcttatct 300
gtatttgttt catgatttgt cagctatcta gcaactatct tagtcactga ttcggaacga 360

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cttagcagtg gttattgcat agaacaactc cttacacaga gatttgcaag ctttctgaac 420  
 tttcgtactt tcaaattgaa aatcaggaga aacattttca acggcttcat attcagacca 480  
 agattagtat attaacaact aataacaata ttaaaagtta gaacaattcc tttcctctat 540  
 ctttctcagg acaaaactga gcttattaga aaactagggg gtgatctggt g 591

<210> 35  
 <211> 306  
 <212> DNA  
 <213> Homo sapiens

<400> 35  
 cctagggaga atcagcaagg aaaagatcaa tgtaatcttg aataacttat cctgaaactt 60  
 ctccagagtt acccagagag tcaacagtca tgcctgtttt tgtacttagt ctgggtgtttc 120  
 agtaccagtt taacacataa aaagtgatca aggtgcaagg gacacagctt tgaaatagtc 180  
 agacctggat ctgaatctgt gattctgtca tctgcaataa gtttctaact tctccaagcc 240  
 ttagtTTTTT atctgtaaag gggagtatta actagagatg aggattaaat gaaaagtcc 300  
 ttactc 306

<210> 36  
 <211> 617  
 <212> DNA  
 <213> Homo sapiens

<400> 36  
 ccaagactga gttagatttt ctattatgta ctcccatggc aacagcattt tccacttaac 60  
 ttgttggaag agggacaact gtccctctggg ggctctgttg ccaatatttg ttccactttc 120  
 tctttcattt tcactttctt ccttacactt gcaatccaga gtccagatgt aaaacagtgt 180  
 agggccataa gtgatgggac atctctaaca aaattcttgg aggctgctgc ctggaaactt 240  
 gtgtccttgg gatggtaccc ttacccttga ggtgctaggg atgggccccca gggctctttc 300  
 ctgcttttcta ctttctaat ggctaagtga tgtcagagga caacatcttg atgtgtagag 360  
 gtacaagaat tcagggatgc aaggatgcct tctgcaaga cagagatcat tctatctaaa 420  
 ccaatgtttt caggtttttt actaggagca catgcatgaa tgtgtatata tgtgtatagc 480  
 tatgcaaaaa catgaacaga tgtatgcatg tgtataatct aaaacacata aagggtacata 540  
 tactgacata ctgaaacaca tattaatata accaaaaata aaaatttcat gagacagtat 600  
 taatgtttac cacatgc 617

<210> 37  
 <211> 725  
 <212> DNA  
 <213> Homo sapiens

<400> 37  
 ccaagactga gttagatttt ctattatgta ctcccatggc aacagcattt tccacttaac 60  
 ttgtttggaaa agggacaact gtctcttggg ggetctgttg ccaatatttg ttccactttc 120  
 tcttttcattt tcacttttctt ccttacactt gcaatccaga gtccagatgt aaaacagtgt 180  
 agggccataa gtgatgggac atctctaaca aaattcttgg aggctgctgc ctggaaactt 240  
 gtgtccttgg gatggtaccc ttacccttga ggtgctaggg atgggcccga gggctctttcc 300  
 ctgcttttcta ctttcctaata ggctaagtga tgtcagagga caacatcttg atgtgtagag 360  
 gtacaagaat tcagggatgc aaggatgcct tctgcaaga cagagatcat tctatctaaa 420  
 ccaattgttt tcagggttttt tactaggagc acatgcatga atgtgtatat atgtgtatat 480  
 ctatgcaaaa acatgaacag atgtatgcat gtgtataatc taaaacacat aaaggtacat 540  
 atactgacat actgaaacac atattaatat aacccaaaata aaaatttcat gagacagtat 600  
 taatgttaac cacatgctat atacttatat ttttctttca tttgcaaaag aatgctgtta 660  
 tgactgtcta aacctctggc ttgagaaaaa aaaaaaaaaa aaaaagatct ttaattaagc 720  
 gtgcc 725

<210> 38  
 <211> 90  
 <212> DNA  
 <213> Homo sapiens

<400> 38  
 gtaaaatata tgtctcactg gcaatttttt ttacattgaa tttgttgaca atttttttac 60  
 attgaatatg ttaaaatttt tatatatattgg 90

<210> 39  
 <211> 222  
 <212> DNA  
 <213> Homo sapiens

<400> 39  
 tgtagagatg ggatctctct ttgttgcccg ggctgggtctg gaattctctg gggtcaggtg 60  
 atcctgctac gtcagccatg agccacgggtg ccagccttgg caggcttggg ttctcttaat 120  
 gcctctcctt ggcttgcaag atggccacct tetggctgtg tcctctctct catggccttt 180  
 cctttgtggg cacacatcct tgttctctcc ttcttcttat aa 222

<210> 40  
 <211> 257  
 <212> DNA  
 <213> Homo sapiens

<400> 40

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gttttcccat tgactaacgc ttaagatata ttggagtcaa atgctcataa aatgctcatc      60
caatgcttat aaaatattag agttgaaatg gactctctgt tcatgcagat gatgagaccg      120
aaacagagag cttccaggag gatcaatgcc attcaatgag cttgctgctg tactccctc      180
tacacaatat ggatatatcc catcccagcc cgagactggc catactagtt ctagtaactg      240
aggcttttct cctactt                                     257

```

```

<210> 41
<211> 263
<212> DNA
<213> Homo sapiens

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<400> 41
gctcgagggt ttcccattga ctaacgctta agatatattg gagtcaaatg ctcataaaat      60
gctcatcaat gcttataaaa tattagagtt gaaatggact ctctgttcat gcagatgatg      120
agaccgaaac agagagcttc caggaggatc aatgccattc aatgagcttg ctgctgtact      180
ccctctaca caatatggat atatcccatc ccagcccgag actggccata ctagtcttag      240
taactgaggc tttcctccta ctt                                     263

```

```

<210> 42
<211> 533
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc_feature
<222> (501)..(501)
<223> n=a, c, g or t

```

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<220>
<221> misc_feature
<222> (514)..(514)
<223> n=a, c, g or t

```

```

<220>
<221> misc_feature
<222> (528)..(528)
<223> n=a, c, g or t

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<400> 42
atacagagtc gtgttggaat ggacgtctta aatcactctt gttatttcca gtggacatta      60
aaaaaaaaatc acagataagt acttaaaaca ctcaagattt gggatttaga tcatgattag      120
atacaataga aagatcctgg aatcccgaca tgaggacaaa aatgggtactg aattcttttt      180
gaaaaataga ttactgaaaa gcgatcta atagaacagt tgcttttact tagatgttca      240
atgcataattt gttgtataat aaccaagtta ttacagttca gataaagggt ccaaagtgtt      300

```

```

ttcgttatga tataatactt tctattgtaa actggactaa agaaacgttg tatgttcaag 360
gaagtgttga gcagccatgg tgttcctggg acatgctccc cagggtgctga gagagggtgct 420
gcaggagtca cagacctgca ggcacgcact tgccagtgcac tgggacgttg gctgggtggtt 480
ctcttttggg gtgattagag ntatgtgagt tgtntcaata cttgagantg tcg 533

```

```

<210> 43
<211> 676
<212> DNA
<213> Homo sapiens

```

```

<400> 43
atacagagtc gtgttggatt ggcagtcctta aatcactcctt gttatttcca gtggacatta 60
aaaaaaaaatc acagataagt acttaaaaca ctcaagattt gggattttaga tcatgattag 120
atacaataga aagatcctgg aatcccgaca tgaggacaaa aatggtactg aattcttttt 180
gaaaaataga ttactgaaaa gcgatcctaat atagaacagt tgcttttact tagatgttca 240
atgcataattt gttgtataat aaccaagtta ttacagttca gataaagggt ccaaagtgtt 300
ttcgttatga tataatactt tctattgtaa actggactaa agaaacgttg tatgttcaag 360
gaagtgttga gcagccatgg tgttcctggg acaggctccc cagggtgctga gagagggtgct 420
gcaggagtca cagacctgca ggcacgcact tgccagtgcac tgggacgttg gctgggtggtt 480
ctcttttggg gtgattagag ctatgctgta caggaagcat ggctggggag gcctcgggaa 540
acttacaatc atggtgaaag gcaaagggga agcagggttg tcccataatt cttcgggcct 600
ctctcaagcc ttcgagtgga tgctgtttca tatttcaccc agcctgggag ttggagacct 660
gagctgcatt acctaa 676

```

```

<210> 44
<211> 251
<212> DNA
<213> Homo sapiens

```

```

<400> 44
caggcctgct cagcaagatt ttcattgggat tagtgaattg gtggttgcca aatgccataa 60
taatgcacca tgcagtagac ttgctgtaaa gcacagtttc atcataacaa taactgtaaa 120
taatgctact gaacagctac agagcactcc tctgaactca ctggaatggg ctatatccca 180
tggaagatg agtaagcctc aagcgcaaaa atctcaccct tgtttccctt ttttttggc 240
agaaatcccg a 251

```

```

<210> 45
<211> 606
<212> DNA

```

<213> Homo sapiens

<400> 45

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agcgcccatg ggattagga gagcatggcc ttcagaggct ggagctgtag tctaactgc      60
acagctggtc cagcagggcg taacgcattc acctagagag taaaatgaca acagttgttc      120
cctaagctca gcacttgcaa agaaatcttt tgggaagatc tttcaaagt tctagaactc      180
tgcgcaaaca ataggtagga caagtgtgaa cctacccaac ctctgttgac aaatacagct      240
gcacaccctt cagcgaggcc tgctgtgaaa tgccaccttg gtgaaaatga gaataaaggg      300
tgagtgagcc agctgctttt ggatgaccaa attaatcttt agcctcccat taagacaggg      360
ctgctcagca agattttcat gggattagtg aattgggtgg tgccaaatgc cataataatg      420
caccatgcag tagacttgct gtaaagcaca gtttcatcat aacaataact gtaaataatg      480
ctactgaaca agctacagag cactcctctg aactcactgg aatgggctat atcccatgca      540
agatgagtaa gcctcaagcg caaaaatctc acccttgttt cctttttttt ttggcagaaa      600
tcccga                                           606

```

<210> 46

<211> 455

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (14)..(14)

<223> n=a, c, g or t

<220>

<221> misc\_feature

<222> (18)..(18)

<223> n=a, c, g or t

<220>

<221> misc\_feature

<222> (16)..(16)

<223> n=a, c, g or t

<400> 46

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tggtgtgttt gaggaactga ggaagggcag ctgggagtat ggtacatgaa aaagaccgtg      300
acaaagaata agattgggca catagatggc agttccatct tctcacgttg tatgccaaag      360

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taagaagttc ctaatttact gatagcaatg tgaaccaat gagaaacttt taaaagaaga 420  
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 <213> Homo sapiens

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 aaggcccagc ttcaaagtgt gctggatcca ggcacacatc ctgaggttct gctgggtctgg 240  
 actgctaacc cactcacgag gatccattct caagcagccc cagcctgtct cccacctgg 300  
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 tggggca 367

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 <211> 249  
 <212> DNA  
 <213> Homo sapiens

<400> 48  
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 agtctaaat 249

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 <211> 436  
 <212> DNA  
 <213> Homo sapiens

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 gatgctgcag tcagatggag tgtctcctcc tggggcccca cagaccctgt acttctctct 360

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 <211> 853  
 <212> DNA  
 <213> Homo sapiens

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 ctggggaatt ttactttttg ctggaaaagg agtcaccctc ccttgccaac cacatgtgtg 780  
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 <211> 383  
 <212> DNA  
 <213> Homo sapiens

<400> 51  
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atgttcaagc cttaaaccct agt

383

&lt;210&gt; 52

&lt;211&gt; 3342

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 52

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gcacaaggac tctgtggggc ccaggagcag gtagtcaccc ctttggggtc cacaacaccc	660
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 <213> Homo sapiens

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 tcaaatgga 129

<210> 54  
 <211> 201  
 <212> DNA  
 <213> Homo sapiens

<400> 54  
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<210> 55  
 <211> 227  
 <212> DNA  
 <213> Homo sapiens

<400> 55  
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 cTTctggccc ctgaacgtt cccccaggc cccgTTTccag ggaaagggat aggcaggcgc 180  
 acgctgcggc cgTTTccaca atccgacctc gtagctgggg cgTgccg 227

<210> 56  
 <211> 271  
 <212> DNA  
 <213> Homo sapiens

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 <222> (64)..(64)  
 <223> n=a, c, g or t

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 tcatgaaatg aatgcctTtt tacttgaaag aatgactgag agccaggcta tggatattca 180

aacatgtatt ttccagacac ttcttgaaaa taagtgaagc aaacctgtta attacaaggg 240  
 aagcaatgac aatatttgtt gccaatgata a 271

<210> 57  
 <211> 573  
 <212> DNA  
 <213> Homo sapiens

<400> 57  
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 aggaagcaga gcagtgtctt gaccttcgtt tctggaaccg agaaaatgat gccatgctgc 180  
 ttgttggtg tgattgttgt tggttttttg tggatgaatt ttaaaatagt atttgtgact 240  
 atcatttcac gtgtccactc tttttaaaaa tgttaccttt tctaggattg gcagaatttg 300  
 gaattatatg tcttattaaa tatgctttga aagacagaag taataagttc tggtaaatct 360  
 tttatagtgt ttgtcttggg agcaaatagt atgagagaga ggtgtgagaa tgggaataat 420  
 aatctaacat atcaaaatta gagaacccca aaccatcaca ttctttctct ttgtgccatt 480  
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<210> 58  
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 ggaagcagag cagtgtctctg accttcgtct ctggaaccga gaaaatgatg ccatgctgct 180  
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 tcatttcacg tgtccactct ttttaaaaat gttacctttt ctaggattgg cagaatttgg 300  
 aattatatgt cttattaaat atgctttgaa agacagaagt aataagttct ggttaatctt 360  
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 <211> 221  
 <212> DNA  
 <213> Homo sapiens

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 aggcattatc tcatgtactc ctcacaggca cttatcaag g 221

<210> 60  
 <211> 535  
 <212> DNA  
 <213> Homo sapiens

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 ggggaaactg aggtcfaatg cattaaggac tgccaggaag ccctgtcctg tggctgtgat 360  
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 <213> Homo sapiens

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 <212> DNA  
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<400> 62  
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 cttctttccc ttgtgtccca agctacctag ttcttgaggc cagttgatgt tatcagattc 420  
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 <212> DNA  
 <213> Homo sapiens

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 aagaaggaag caattgcata tcaattttct tctattccag cttaatctat ttatttttct 180  
 cttttacatt aaaacattct tttaatgata tatgtgcct gtaaatattt cccaccact 240  
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 tctcttctt tcccttgtgt cccaagctac ctagtctctg gagccagttg atgttatcag 420  
 attcttttgt attctttcag acacacatgg tatgcatttt tgagcaaagg ggcgtgggtg 480

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tgtgtccctc tgtttttaag ttctaaatgt tagcatgcta cacatacttt tttcatatat 540
tttcttaagt aactttatct cattatttgt attcagtttt gtaaaattag atactacatg 600
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<210> 64
<211> 601
<212> DNA
<213> Homo sapiens

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c 601

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<210> 65
<211> 1216
<212> DNA
<213> Homo sapiens

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<222> (58)..(125)
<223> n=a, c, g or t

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<220>
<221> misc_feature
<222> (1204)..(1204)
<223> n=a, c, g or t

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<220>
<221> misc_feature
<222> (1206)..(1206)
<223> n=a, c, g or t

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<400> 65
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catttgaatc ctgtcagccc tgttttccat caccaaagga ctccggagga actgtgccaa 480
gcaggctgtc agccacgggc aagctttctg aaaaagacgt gccaaactga gccacagaaa 540
gtccattccc ttgaataact ctgctaatat ttgaaaatta gtcccttgc tcctgatcat 600
gctactgggt atttgatat aagagccaag gatgagggca atagaaaatt aaaatcatgt 660
tctactcata taaactgcac agatatggaa gggtaggtcc tattacctat aatcctggga 720
tttttagact ctactttca ttggaccaga gttgccttag ggacagtaaa aacacaaaat 780
gctgggtatt gttttcatca agcaactact gatagtgcac atttaaataa aaattcttct 840
aatcccaaac tcagtaaaca gatgctgtga gcttagttct gccctctgg cttcagattt 900
taccctactg gatgtgccc attctgagat gacaagacgc ttccagcttc cacatgggtg 960
caatttggct gtggaactgg catgaaagca cgtcactgtg tcagcacctg ggccaccaga 1020
tgaataacct atgaacaaca gctttggact aaaatatgaa ggggttggtt tccttcaatc 1080
tccccctacc ttctcagaa cctgctacaa ggaaagattt atagactcga aagcgtcaat 1140
gactgattag acccatatga ttgctcctgc tgtttctgat attttaaaaa attgtcttat 1200
aaangnataa aaataa 1216

```

```

<210> 66
<211> 1430
<212> DNA
<213> Homo sapiens

```

```

<400> 66
gctcaccaat gtgggtgggc ctcatccaat ccattgcaga cttgaataga actaaaagga 60
agaggaaggg caaatttgtt ggctgcttga gctgggatat tcacttttct cctgatcttg 120
gacatcagaa ctctgattc tcaagccttt ggggttggac tggaggcacc agctttcctg 180
ggcctccagc ttgcagatgg catatcatgg aacttctcag cctccaaatt cataactcta 240
atacaccagt acaatggaaa gattcctaaa ttcaaaagcc agaaggctgg gttcctgttc 300
ccacctgcc ttttaccttc tgtgtgttcc tgatgaagac acttcatgct ccaactattta 360
cttacctctg aaacgaaggg ctgaccacga tcagttgttc tctgacctgc ttggagggac 420

```

```

tcagaggctg tggagagtga atatttccat cagctgatgc ccttctcagg cctcaatctc 480
ccctgggttg cagactgtgg ccctccttgg cctctgtgga atctggccat ttgaatcctg 540
tcagccctgt tttccatcac caaaggactc cggaggaact gtgccaagca ggctgtcagc 600
cacgggcaag ctttctgaaa aagacgtgcc aactgcagcc acagaaagtc cattcccttg 660
aataactctg ctaatatttg aaaattagtt cccttgctcc tgatcatgct actgggtatt 720
tggatataag agccaaggat gagggcaata gaaaattaaa atcatgttct actcatataa 780
actgcacaga tatggaaggg taggtcctat tacctataat cctgggattt ttagactctc 840
actttcattg gaccagagtt gccttaggga cagtaaaaaac acaaaatgct gggatttggt 900
ttcatcaagc aactactgat agtgcacatt taaatcaaaa ttcttctaata cccaaactca 960
gtaaacagat gctgtgagct tagttctgcc cctctggcct cagattttac cccactggat 1020
gtgcccatt ctgagatgac aagacgcttc cagcttccac atgggttgcaa ttgggtgtg 1080
gaactggcat gaaagcacgt cactgtgtca gcacctgggc caccagatga ataacctatg 1140
aacaacagct ttggactaaa atatgaaggg gttgttttcc ttcaatctcc cctaccttc 1200
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catatgattg ctctgctgt ttctgatatt ttaaaaaatt gtctcataaa gagatacaaa 1320
taaataatca atggcaaact tctggcatgg gagagacatt tagggaaaga agtcatctca 1380
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```

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<210> 67
<211> 430
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (72)..(139)
<223> n=a, c, g or t

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<400> 67
gggatattca ttttctcct gatcttgga atcagaactc ctgattctca agccttggg 60
tttgacctgg annnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnt aactctaata caccagtaca atggacagat tcctaaattc 180
taaagccaga aggtgggtt cctgttccca ccttgccctt taccttctgt gtgttctga 240
tgaagacact tcatgtcca ctatgtactt acctctgaaa cgaagggtg acccagatca 300
gttggtctct gacctgttg gagggactca gaggtgtgg agactgtgg cctccttggc 360
ctctgtggaa tctggcctt gaatcctgtc agcctgttc tccatcacca aaggaatccg 420

```

gaggaactgt

430

<210> 68  
 <211> 829  
 <212> DNA  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (240)..(354)  
 <223> n=a, c, g or t

<400> 68  
 gtatgtacta cccacataag tgggacactt tgaacaatga aatatagatg ttttcaccaa 60  
 agaagggagt cttatttttt tccgacttca gacaattcat cttcatccat taatttttcc 120  
 tttttgtaat atgtaccttt atgctaattt ttaatatgca aataacttac aaatatatgc 180  
 tcagcatttg agtacaggct gtgctttatt acatattaca tgcattgtatg caatgtactn 240  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnacaaaa 360  
 taaaatttgg aatgaagcag gaattatctt ggactattta taatttatta agatactaaa 420  
 taccgtcatt atgaaatggt ctcattaagt gatccctgtc taaagagttg cataatagtg 480  
 agacaataag gggcttagtg tatttttttt cttttgaaca taagctattg tacatttgtg 540  
 ccaacaggac ttctttatag agtctcattt tcttattaca atattatttt tgttattaag 600  
 tgaaacacct catatcacca ccaactgtga gccagatata atagactgta ctgtgtaagg 660  
 ttcttaaaaac tcacatctat aataaccaga cctctttttt tatattgatt caaattatgt 720  
 ttaatgctga attataagca aaacctacaa gaataaaatc attttatgct ttgaaactga 780  
 ctcttttttt aaaaaaagaa tgatcacaac taccaactcc ctcatctat 829

<210> 69  
 <211> 541  
 <212> DNA  
 <213> Homo sapiens

<400> 69  
 atagactagt aaagtctgtt tttatataaa agtgacacag gaagctgtta caatctagga 60  
 atgggcaggt atggtcagtg gttgtcacia tagagccacc caaggagaca tctcttctcc 120  
 agatcctaac agagtgcac ttgtgctttt cctaacagac ctgtcggact ggctttttct 180  
 cttttaagga tatagagaaa gcaaaattag caaatctagt ttcttgtcac ttacttagga 240  
 gggaggaaaa gagagaaaga atgcacttgg gaatgggagg ccttgctttt aatttaccag 300

```

atgccagtta gagcgtaaat gccacacgag ccagagaggt caccttgctg agcatggctt 360
gactgttgca gcctctttct gcgactccag acatgcgatg tctgttagct gattctagcc 420
ttcagatgca gcccggagat gtaaccctga ggctggagtc ctgtggctct aatcccagac 480
agaggcaact ccaccaagtt ctggtttggg tcagaaatag agggaaagga tgaatgaaag 540
a 541

```

```

<210> 70
<211> 696
<212> DNA
<213> Homo sapiens

```

```

<400> 70
atagactagt aaagtctgtt tttatataaa agtgacacag gaagctgtta caatctagga 60
atgggcaggt atggtcagtg gttgtcacia tagagccacc caaggagaca tctcttctcc 120
agatcctaac agagtgcac ttgtgctttt cctaacagac ctgtcggact ggctttttct 180
cttttaagga tatagagaaa gcaaaattag caaatctagt ttcttgctac ttacttagga 240
gggaggaaaa gagagaaaga atgcacttgg gaatgggagg ccttgctttt aatttaccag 300
atgccagtta gagcgtaaat gccacacgag ccagagaggt caccttgctg agcatggctt 360
gactgttgca gcctctttct gcgactccag acatgcgatg tctgttagct gattctagcc 420
ttcagatgca gcccggagat gtaaccctga ggctggagtc ctgtggctct aatcccagac 480
agaggcaact ccaccaagtt ctggtttggg tcagaaatag agggaaagga tgaatgaaag 540
aagatacaaa gaaataatga acaagtgagt tctttcagct gcttacttgg gtgggtctgca 600
ggcagcaaga gacaggaagg aggctgttgt ggggtccttg ttcagaggcag tgggagattt 660
gtcagagggg gttgtgtggg aagtgtgaga aggggt 696

```

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<210> 71
<211> 1207
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc_feature
<222> (957)..(957)
<223> n=a, c, g or t

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<400> 71
gcagtgccag gacctctccc ggaggcgggg cagagcagca gcttctcggc cctgtgccga 60
gcccaggcct gcacccctaa ggcaggcact gctccgtgat ccaggaacca cctctctcta 120
cagctgggag tgagcagtca gagagggaga cagccttgcc cggtgctacc cagcaagcta 180
gtcaccgagt gggcagaggg aggagcggcc ctcaccgat gtcaagcagc ctgggtcccc 240

```

```

agtcacagctc tgccctgtccc tcgcaataac gcctcagtgga cgaccatttg tgagccatct      300
ctctgtctca ggcacgggtgc tacatgccaa cgaaacctgc tccattgaa ccctggccag      360
ccagtgaaga aagggttggg cctgggaggt gccactttac agacaggggc accaaggggc      420
aggggtggcag gaggcccacc ggacgttccc catgaagtag cagtcccagc atccacaccc      480
agcaggcacc acgctggccc gcagcctccc tgccagcacg cctggcttcc cggcctcgga      540
acttgatctg ctccctcttc cggacactgg ggctcctgcc aagtccctggg ctgggcagca      600
actgctgaac attctaagaa atccctccca gggttttctc aggagcccggt gtggggcagg      660
aagtcctccag gggctgaggg gaccgtggcg gcagggtggca cccagagcag cactctcctg      720
gggcccaggc tgttggggcca gaggcaggac tgtgaggcct agtgtagggc ctccctgccag      780
tgcccgccac ctacttgtgg ggctgggggt tccccagca ggttgggctc cccacctgac      840
acactcacag accttgtgcc ttggagagcc agtggtcccg gggccacata gctatgccgc      900
ccaggggctg ggctgtccc agctctggtc ccccgccccc aggtcctgga cgctggntcc      960
gcgcagcagc aggcggcctc cggaggacac gatgtgactg gctgccgcta cgtcgcactc     1020
agatgagtct gcgccgatc gacctgctgc cgagtcctgc cggacaggca caggcaggga     1080
gtgaaaatta tctacccctt tttatttctt aataactgaa tgaaaataaa cattgggtgg      1140
ttgacaaata actacatatt ttcaaaccac gccagtcagc gggatgcagt ttccaggctgc     1200
gttatgc                                           1207

```

```

<210> 72
<211> 263
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc_feature
<222> (231)..(231)
<223> n=a, c, g or t

```

```

<220>
<221> misc_feature
<222> (239)..(239)
<223> n=a, c, g or t

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```

<220>
<221> misc_feature
<222> (242)..(242)
<223> n=a, c, g or t

```

```

<220>
<221> misc_feature

```

<222> (248)..(248)  
 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (259)..(259)  
 <223> n=a, c, g or t

<400> 72  
 gtctacttc aataatttaa aaaaatattc tgggatttgc attcctcaaa tttcagccct 60  
 cattttactt tacctgtcta cagtgttttg cgcaattgac cactccttcc tttttgaagt 120  
 attttctttc ctgggtttct gaaatactgt tatcttctta tctcactggc catacattct 180  
 agtctccttt gctagtttat tatggttttc atcttctcaa caacaatttt ntttttttng 240  
 gnggagangg agtcttgcn tgt 263

<210> 73  
 <211> 579  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (547)..(547)  
 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (555)..(555)  
 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (558)..(558)  
 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (564)..(564)  
 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (575)..(575)  
 <223> n=a, c, g or t

<400> 73  
 tgggtgttga gtctaaaaa ttgtatacca gtgctaattg ggatatacca aactttttgt 60  
 ctcttagtaa ttagttttgt tttgttttgt tttgttttaa tgttgtgctt atcttaaggt 120

```

gtaaatgcag acaaagttgg aattgaagct gccgaaatgc tattagcaaa tcttagacat 180
ggtaggtactg tggatgagta tctgcaagac caggtaatga cacatttagg ttaaaaaccc 240
tctaacctgt tagatttgaa tatgtggtag attgaatata aatttaaata attgactttc 300
agacactaat tagcaagtcc tacttcaata atttaaaaaa atattctggg atttgcatte 360
ctcaaatttc agccctcatt ttactttacc tgtctacagt gttttgcgca attgaccact 420
ccttcctttt tgaagtattt tctttccttg gtttctgaaa tactgttata ttctatctc 480
actggccata cattctagtc tcctttgcta gtttattatg gttttcatct tctcaacaac 540
aattttnttt ttttngngng aganggagtc ttgcnatgt 579

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<210> 74
<211> 339
<212> DNA
<213> Homo sapiens

```

```

<400> 74
ctctgttctt tgctcatctt catggtgatt gggggtagat cagatgagtg tgtaaaagcc 60
ccttgaaagc tggaaagagc ttaacaaata tcagctgttg ccatgaaaga atatttgctt 120
actttccatt gtgtataaga taacgataat catagaatta atattattca acttccttgt 180
gtcttttgca catttctgta cagtcctgtt tttgtttgtt actgtcattc tcaaagtact 240
caagttgaat tttgtcactt tggatttctt ccaggaatat gtgagagaca tttaggtctc 300
taatgatgaa gtattttcta ggcgtaatgc aaaagattg 339

```

```

<210> 75
<211> 299
<212> DNA
<213> Homo sapiens

```

```

<400> 75
caacgacaga taacttcgtg atggaaaatg taggtctcct tagtagttag ccctctgcca 60
ggtagacttcg ttccacctc cccttatata ttgttcttcc ttctctcta aattctctaa 120
atctctgctt atacagagca atctggctct ctctggctc tccagtcac atacatcata 180
ctcacattca ccattctgag aagtgcagta agccacataa atgcagcaga agtaccttat 240
gcagtcctag gaggtgtgg ttttgagttg cttttttttt tcttttggga gacggagcc 299

```

```

<210> 76
<211> 247
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

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<222> (174)..(174)  
 <223> n=a, c, g or t

<400> 76  
 tgtatatattga gctcctactg tgtggcaagg cctatggtaa gcattttatt ttggtaactt 60  
 gtttaatect cattacaatt ctgtggtaaa tgctattatc tgtttttata ttgaagggat 120  
 gaaatggagg ctgagaggga tatgtagtag ctaaagtta gagctaggat tganacccaa 180  
 attgacttct gagtatagat ttccccccaa ctgtatgata cttcatattt ggagtcagct 240  
 tgaagta 247

<210> 77  
 <211> 254  
 <212> DNA  
 <213> Homo sapiens

<400> 77  
 tgtatatattg agctcctact gtgtggcaag gcctatggta agcattttat tttggtaact 60  
 tgtttaatcc tcattacaat tctgtggtaa atgctattat ctgtttttat attgaaggga 120  
 tgaaatggag gctcagaggg atatgtagta gctaaatgtt agagctagga ttgaaaccca 180  
 aattgacttc tgagtataga tttcccccca actgtatgat acttcatatt tggagtcagc 240  
 ttgaagtaat tcac 254

<210> 78  
 <211> 504  
 <212> DNA  
 <213> Homo sapiens

<400> 78  
 tgatttgatt tggttttaaa atagaatagt tgtactctga gggaggaggg aaatgcttaa 60  
 acaatactaa gaattccatt ctttagagac aaattactta gaagttgata gtgacatatt 120  
 gaaagggttg ttgattgttg gattattcag gtgatgaaga tgatggtagg ggccatggcg 180  
 gctgagggag aatgagtctt aaacactgag gaggcacaaa agattgggtg gctggatata 240  
 ataggaaaact ggaacgaaag aaggagaaga gaatggcgat actgataaaa aatagaatga 300  
 aagaagatgt gtggaaaaga aagtttcact ttgaaggctt gatttttgaa gtgatggcag 360  
 atatagatat acatccaata gatgagtggg aaaagtaa at caaacagaaa tgaaaaattg 420  
 agtccaagat tgatgggaga ctaataatgg ggaggactga gcctgggggc aactacatta 480  
 gtaacagtgg caggttttgt tttt 504

<210> 79  
 <211> 210  
 <212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (80)..(99)

<223> n=a, c, g or t

<220>

<221> misc\_feature

<222> (173)..(173)

<223> n=a, c, g or t

<220>

<221> misc\_feature

<222> (175)..(175)

<223> n=a, c, g or t

<220>

<221> misc\_feature

<222> (206)..(206)

<223> n=a, c, g or t

<400> 79

gtccctctag agaaccctga ctaatacagg tggttcctgg ctcattggcag tgtgactcca 60

gtctttacat ggcgttcccn nnnnnnnnnn nnnnnnnnnc aaatttcctc ttttcataag 120

gaccgtggta ttggataggg gtccacccta cttcgatatg accttatttt aantncatct 180

ttgatgaccc tgtttccacg taaggncaca 210

<210> 80

<211> 161

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (116)..(116)

<223> n=a, c, g or t

<220>

<221> misc\_feature

<222> (148)..(148)

<223> n=a, c, g or t

<400> 80

gagggtcaga agcagaaaga tgacatcata agaaagactc aactggccat ttttggtttt 60

gaaggtggaa aggggacctg agtccaggca tgtgggcagc ctggagaagg cgaganaatg 120

gattcttccc cagaatccct ggaaaggncac gtggccctaa c 161

<210> 81  
 <211> 112  
 <212> DNA  
 <213> Homo sapiens

<400> 81  
 tagcaccttt taataactct ttttagagta atttagagca aactagataa attttaatat 60  
 atatctcatt gcatactttt atgtaacttt gtcttagaaa aacaagagtt ct 112

<210> 82  
 <211> 277  
 <212> DNA  
 <213> Homo sapiens

<400> 82  
 tgaaatgatg acaccagtag aatatggtga gatatgtata cacaatgtaa tacctagagt 60  
 gacaatttaa aaacctatac aaagagtgac acataaataa acaaaaacaa cataaaaaata 120  
 aaaatataat tctaaaaata ttcaagtagc caattggaag gtggaaaaaa gaaaaagaac 180  
 aaaaaataga acagcactaa acaaaaaata aaatgcgaga cctaggccct gacatatcaa 240  
 taattatatt aacatgtaaa tgggtctaaat tttaacca 277

<210> 83  
 <211> 637  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (7)..(7)  
 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (92)..(196)  
 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (232)..(316)  
 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (367)..(427)  
 <223> n=a, c, g or t

<400> 83  
 gtccttnggt gttgcaccaa acaggctaag aagcaatgac attgattatg aggaacttgg 60  
 aactcagatg tattaatttc ctattgtgtc tnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 120

```

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnncact ttctttctgt aggetctagg agagaatcta gnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnnn nnnnnnccaa gtcccttctca cactgctgtc tttttgggtc tctctcttgc 360
ctgcctnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnncat agttgattag cagccttaat ccctctgtaa ttttaattcc cttttgccag 480
gtaatgtggc cattatcttg cctacaacct cagaggatgt tgataatgta aagggtagtg 540
aattggggag ttcatagggt ttgatagttg acaaatacag agtgtagtat taggtagggg 600
ttttttggca ggggtgcagtg gcccatacct gtaatgt 637

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<210> 84
<211> 577
<212> DNA
<213> Homo sapiens

```

```

<400> 84
caggcataag ccaccacacc tagccaagaa accattcttt gaacacaagc aaatatactt 60
tggagaaaaa ttttaataatc ctggcagggc tacattcaac ataattctgt tatgggggaa 120
ggcagcatgc tttggctgct cagtgaagta tgttctgtac aaccaagtga aattgctaaa 180
aaaagattct cctgtataca gtaacttaaa gtgatgcagt ctacttaaga tcagatctga 240
gttacaaaat caaaagtgc agctcctatg ttcttttaaa gtccaatctc tttttttcat 300
tgttgctgctc caaatgcctt gagtacctga tgtagagtag gtggctaata aatattgggt 360
gaatttcttg aacgaatctg ttatgaaaag atctactttg ctcatctctg tgccccaata 420
gcaggagctt gaggagaagg agaaaatatt gggtcagagc ttttgattaa tatgtatgat 480
tctattaaac gggttcacta aaccaaaaaa ggcaaggaaa acagttaaac caagagtctt 540
gaggttcaag tcttgatgat attaaatcat catccta 577

```

```

<210> 85
<211> 687
<212> DNA
<213> Homo sapiens

```

```

<400> 85
ttcccatggt agccagggct ggtcttgca tctgaacctc agggatatcac ccccccttgg 60
gctcagggct catggctgat attacaggca taagccacca cacctagcca agaaaccatt 120
ctttgaacac aagcaaatat actttggaga aaaatttaat aatcctggca gggctacatt 180
caacataatt ctgttatggg ggaaggcagc atgctttggc tgctcagtga gctatgttct 240

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gtacaaccaa gtgaaattgc taaaaaaaga ttctcctgta tacagtaact taaagtgatg 300  
cagtctactt aagatcagat ctgagttaca aaatcaaaag tgacagctcc tatgttcttt 360  
taaagtccaa tctctttttt tcattgttgt gctccaaatg ccttgagtac ctgatgtaga 420  
gtaggtggct aataaatatt ggttgaattt cttgaacgaa tctgttatga aaagatctac 480  
tttgctcatc tctgtgcccc aatagcagga gcttgaggag aaggagaaaa tattgggtca 540  
gagcttttga ttaatatgta tgattctatt aaacgggttc actaaaccaa aaaaggcaaa 600  
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cctaagatga tgatgacata aactttc 687

<210> 86  
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<212> DNA  
<213> Homo sapiens

<400> 86  
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cttgcattgca catcccc 77

<210> 87  
<211> 575  
<212> DNA  
<213> Homo sapiens

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ggcagcaaaa ttacctgtaa aaacatacta gctcaagagt ttgacaggct caaaataaat 420  
taccttaaatt acattaaaca agaagtgtat ttgttatata gtatgtactg accaaaatta 480  
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tttggtacat ttaaaaatca gcatctagca aattc 575

<210> 88  
<211> 663  
<212> DNA  
<213> Homo sapiens

<400> 88

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aacattttaat ttattgaaca ttattatat gccaaagctg gtataagaca ccaaaagagt      180
aagacagaaa gtattcttcc ctggagcttt gtctgacttt ccaagcttta ttaggcataca      240
aacaaaactg aagtgccttt taagattcaa gtctcctacg tcgtctaagg cagagtaagt      300
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tgaaactttg gtataaatgt cagattctag attgtgctcc tgctttctgc acactctaata      420
atttttaaac atctcgaaaa tacagagtgg cagcaaaatt acctgtaaaa acatactagc      480
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gttatacagt atgtactgac caaaattaaa gtgcagggtg tacagaaaga gctgcttggtg      600
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<210> 89
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<212> DNA
<213> Homo sapiens

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<210> 90
<211> 496
<212> DNA
<213> Homo sapiens

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<400> 90
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aattacaagc gtgacgcact gtgcccagct tagtatacag tatttttaac aagaattata      180
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ggcggatccc ttgagctcag tttgagacca ggctgggcaa ctccatcttt accaaaaaat      360
acaaaaatga gccaggcatg gtgggtgtaca cctgtggctc cagcggctct gggggctgag      420
gtgggaggaa ggcttgggcc taggaggtgg aggttgcagt gagccaggat tgtgccactg      480
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 <212> DNA  
 <213> Homo sapiens  
  
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 <223> n=a, c, g or t

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 <223> n=a, c, g or t

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 agcctttata gatttgccat gatcctaata catataagca ttcattgtat tcattattaa 180  
 ttacttcata gattcagtgt gtgacgaagg gagatgattt ttaacaaata ataaagtga 240  
 atgatctagt tttgctatgt tgn ttgagca acatcaaata gttttgctaa aatagataat 300  
 ttatagtgat ttttttttca ctatggnatt ttcttaaata tattaagggc tttcattttc 360  
 tgataccacc tagtttaatt gggggg 385

<210> 92  
 <211> 500  
 <212> DNA  
 <213> Homo sapiens

<400> 92  
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 agcctttata gatttgccat gatcctaata catataagca ttcattgtat tcattattaa 180  
 ttacttcata gattcagtgt gtgacgaagg gagatgattt ttaacaaata ataaagtga 240  
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 tttatagtga tttttttttc actatggtat tttcttaa atattaagtg cttttcattt 360  
 tctgatacca cctagttaa ttgggggtga atatcagaga aattagaatg ttatttcagc 420  
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<210> 93  
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 caggaaacaa ttgaaagcct tcaacatgtg tgggtggggg gagagataac tgaattaaca 240  
 ggccatgtag taaaacttaa aatcaaatcc agtagtcttg aaggatatag aattgtttag 300  
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<210> 94  
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<220>

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<222> (92)..(93)

<223> n=a, c, g or t

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<222> (95)..(95)

<223> n=a, c, g or t

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<222> (97)..(97)

<223> n=a, c, g or t

<220>

<221> misc\_feature

<222> (121)..(122)

<223> n=a, c, g or t

<220>

<221> misc\_feature

<222> (131)..(131)

<223> n=a, c, g or t

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<222> (148)..(148)

<223> n=a, c, g or t

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nnatattaat nagatgtatc aaactgtnac aatatgtgaa gagtattgtg tatatacaaa	180
caggaaacaa ttgaaagcct tcaacatgtg tgggtggggg gagagataac tgaattaaca	240
ggccatgtag taaaacttaa aatcaaattc agtagtcttg aaggtatagt aattgtttag	300
ttttgaaggt atagtaatta agtactgccc actaaaaaaaa actgacccaaa aggccgggtg	360
cggtggctca cgctgtaat cccagcactt tgggaggccg aggcgggcgg atcacctgag	420
gtcaggagtt cgagaccagc ctggccaaca tgggtgaaacc ccgtctctac taaaaacaca	480

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aaaattagcc gggcatggtg gctcacgcct gtaatcccag cactctggga ggccaagaac 540
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aaggcttagc aaaagatgct tgggaaatcc ctcgagaatc tttgcgacta gaggttaaac 660
taggacaagg atgtttcggc gaagtgtgga tgggaacatg gaatggaacc acgaaagtag 720
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<210> 95
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<212> DNA
<213> Homo sapiens

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<223> n=a, c, g or t

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<220>
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<223> n=a, c, g or t

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<220>
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<222> (315)..(315)  
 <223> n=a, c, g or t

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngtgcata 180  
 atggagattt taatagtagc catctcataa ggtgggtgca aagggttaa atgtttaatat 240  
 gcatgatgca catagaacaa tgcctagcac atagtagaga tacataatca ctactatata 300  
 ctggtaccag tananggtca ggtcttatgg acctagggtc atataactta gtctcttcca 360  
 agattcttga aatgatttct caaaacaaga gaatataaag aagaaacgtt atgaa 415

<210> 96  
 <211> 504  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (212)..(231)  
 <223> n=a, c, g or t

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 tgttttagatt ttggtactgc aactgctttc ctcttgccca gaaatgtttt gcctcttctt 180  
 ttctacaag ttaaattgtc taaatataaa gnnnnnnnnn nnnnnnnnnn naattccta 240  
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 aatgtagtct atgtagggtt ttatcagaaa gtgtacctt ctatgggtta ttattttata 360  
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<210> 97  
 <211> 516  
 <212> DNA  
 <213> Homo sapiens

<400> 97  
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aatgtagtct atgtagggtt ttatcagaaa gtgtaccttt ctatgggtta ttattttata 360
ttctggggcc ttttatctca gatataaacc atgaacagta atgatatgcc ctgacatata 420
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<210> 98
<211> 400
<212> DNA
<213> Homo sapiens

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<400> 98
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acgtgatgtc actgaccag gtcattcctt tactttcaaa tcttcaagaa ttggatttat 180
cagccaacaa aaagatgggc agttctcttg aaaacttact cagcaggctc cgatttttac 240
cagcattgaa gtcattagtt atcaacaact gtgctttgga gagtgagact tttacagctc 300
ttgctgaagc ctctgttcac ctctctgctc tggaagtatt caacctttct tgggaacaag 360
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<210> 99
<211> 2352
<212> DNA
<213> Homo sapiens

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<400> 99
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 <212> DNA  
 <213> Homo sapiens

<400> 100  
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 aaaaggctgt caacaagtgt ctagatttga ataactgtgg attaacaaca gcgacatga 420  
 aagaaatggg tgccttgctg ccttttctcc cagacttgga agaactggat atctcctgga 480  
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 aaaaatcttg aggctgggta gctgc 565

<210> 101  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 101

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<210> 102  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 102

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<210> 103  
 <211> 23  
 <212> PRT  
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<400> 103

Met Gln Val Leu Tyr Trp Thr Tyr Leu Leu Leu Ile Leu Phe Pro Thr  
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Phe Thr Cys Leu Phe Ile Phe  
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<210> 104  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 104

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Thr Pro Leu Ile Ser Leu Phe Leu Ala Leu  
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<210> 105  
<211> 49  
<212> PRT  
<213> Homo sapiens

<400> 105

Met Thr Thr Lys Lys Gln Glu Glu Cys Glu Ser Leu Lys Asp Lys Gln  
1 5 10 15

Lys Ala Thr Lys Gln Ser Ile Ser Phe Cys Ile Tyr Ile Ile Lys Val  
20 25 30

Lys Phe Ser Thr Leu Ala Thr Asp Tyr Lys Ser Val Pro Ser Gly Cys  
35 40 45

Cys

<210> 106  
<211> 61  
<212> PRT  
<213> Homo sapiens

<400> 106

Met Pro Ser Pro Ser Ala Pro Ser Ile Val Pro Val Leu His Gly Cys  
1 5 10 15

Trp Val His Ile Cys Gln Ala Asp Val Tyr His Thr Leu Leu Lys Gly  
20 25 30

Phe Lys Ser Val Phe Glu Thr Glu Ser His Val Val Ser Pro Arg Leu  
35 40 45

Glu Cys Asn Gln Ser Lys Thr Pro Leu Lys Lys Asn Lys  
 50 55 60

<210> 107  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 107

Met Glu Leu Val Met Glu Trp Lys Leu Thr Ile Cys Ser Pro Lys Cys  
 1 5 10 15

Ala Thr Thr Thr Gln Gly Leu Gln Thr Asp Ser Tyr Leu Asp Val Val  
 20 25 30

Glu Ser

<210> 108  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 108

Met Val Asn Pro Ala Gln Glu Met Thr Leu Ser Arg Asn Thr Cys Lys  
 1 5 10 15

Tyr Lys Lys Gln Asp Ile Leu Pro Gln Leu Arg Ser Asp Lys Ile Thr  
 20 25 30

Leu Gly Lys Leu Gln Gly Gln Cys Ala Ser Lys Thr Lys Ser Leu Val  
 35 40 45

Ser Ser Leu Thr Ser Tyr Leu Pro Ala Phe Ile Ile Ile Ser Leu Ser  
 50 55 60

Val Thr Gln Tyr Leu Val Asn Phe Leu Phe Trp His Thr  
 65 70 75

<210> 109  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 109

Met Gln Cys Lys His Phe Phe Leu Thr Tyr Leu Thr Asp Gln Gly Gly  
 1 5 10 15

Gln Val Ala Leu Leu Ser Ser Phe Pro Pro Cys Gly Asp Ser Gly Ile  
20 25 30

Gln Ala His Ser Ile Thr Arg Leu Ser His Ile Gly Val Phe His Phe  
35 40 45

Gly Asp Glu Asp Glu Gly Glu Ser Gly Arg Glu  
50 55

<210> 110  
<211> 91  
<212> PRT  
<213> Homo sapiens

<400> 110

Met Asp Val Met Gly Lys Leu Lys Gly Ser Cys Asp Glu Thr Gly Ser  
1 5 10 15

Glu Asn Ser Asp Gly Asp Leu Ser Lys Val Ile Leu Pro Lys His His  
20 25 30

Leu Ala Ile Met Ile Pro Pro Asn Leu Ser Gln Phe Val Tyr Phe Ile  
35 40 45

Ser Arg Gly Ser Phe Ser Val Leu Ala Ser Cys Val Phe Val Phe Phe  
50 55 60

Phe Phe Ser Val Ile Leu Gln Ala Gln Asp Phe Leu Leu Asp Thr Gly  
65 70 75 80

Arg Ile Ser Leu Leu Lys Glu Ala Gly Gly Thr  
85 90

<210> 111  
<211> 45  
<212> PRT  
<213> Homo sapiens

<400> 111

Met Gly His Val Asp Gln Leu Ser Pro Arg Thr Thr Asn Leu Ala Cys  
1 5 10 15

Ser Asp Asp Leu Cys Ser Arg Gln Gly Phe Arg Leu Asp Cys Cys Ser  
20 25 30

Ser Leu Trp Arg His Asn Pro Asn Cys Glu Leu Leu Asn  
35 40 45

<210> 112  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 112

Met Leu Lys Met Ile Leu Ala Ser Ile Val Ile Asn Ser Val Ile Pro  
 1 5 10 15

Glu Phe Phe Val Ser Pro Arg His Thr Asn Phe Cys Pro Leu Leu Leu  
 20 25 30

Phe Ser Gln Ser Phe Leu Leu Ala Phe Leu Ser Asn Arg Val Leu Leu  
 35 40 45

Thr Pro Tyr Ile Pro Phe Trp Leu Val Arg Val Ser Phe Ser Ser Ser  
 50 55 60

<210> 113  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (14)..(14)  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> (17)..(17)  
 <223> X=any amino acid

<400> 113

Met Leu Leu Phe Thr Lys Leu Leu Ile Ile Met Val Ile Xaa Ile Asn  
 1 5 10 15

Xaa Asn Asn Lys Leu Leu Gln Leu Phe  
 20 25

<210> 114  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 114

Met Arg Ile Gln Asn Leu Thr Cys Leu Leu Leu Gly Ser Lys Glu Met  
 1 5 10 15

Ser Thr Ser Ser Pro Leu Thr Pro Asn Gly Val Glu Gly Phe Gly Pro  
 20 25 30

Gln His Cys Val Thr Tyr Ser His His Asp Phe Leu Ala Gln Val Thr  
 35 40 45

Pro Ser Val Lys Trp Lys Arg Glu Glu  
 50 55

<210> 115  
 <211> 147  
 <212> PRT  
 <213> Homo sapiens

<400> 115

Met Asn Glu Ser Trp Ala Gly Pro Gly Pro Ala Glu Arg Ala Glu Glu  
 1 5 10 15

Ala Val Ser Gly Val Gly Val Glu Ala Lys Thr Gln His Ala Gly Gln  
 20 25 30

Gly Ala Gln Pro Gly Gly Met Gly Cys Gly Phe Ser Ser Gly Pro Ile  
 35 40 45

Gly Met Ala Leu Gly Leu Gly Leu Val Gly Thr Ala Ala Thr Arg Gly  
 50 55 60

Gly Ser Ser Ala Trp Pro Asp Ser Thr Cys Asn Val Gly Arg Gln Trp  
 65 70 75 80

Ala Pro Pro Gly Gly Arg Asn Thr Val Arg Ser Met Gln Arg Ala Gly  
 85 90 95

Asp His Gly Ala Cys Asp Leu Arg Ala His Pro Gly Gln Thr Trp Val  
 100 105 110

Arg Gly Gly Leu Gly Arg Gln Asp Ser Glu Gly Leu Gln Gly Val Phe  
 115 120 125

Val Leu Cys Pro Tyr Thr Gly Asp Leu His Gly Arg Val Arg Ser Ile  
 130 135 140

Arg Met Leu  
 145

<210> 116

<211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 116

Met Thr Ile Ser Leu Cys Ala Thr Asn Leu Pro Arg Ala Ala Thr Val  
 1 5 10 15

Leu Arg Met Lys Pro Lys Leu Pro Gly Ser Gly Pro Val Gln His Glu  
 20 25 30

Pro His Leu Pro Ser Gln Pro Gln His Pro Leu Leu Phe Phe Gln Ala  
 35 40 45

Gly Gly Lys Leu Glu Ala His Pro His Phe Thr Gln Thr Leu Gly Ile  
 50 55 60

Pro Ile Ser Gly Asn Arg Gly Val Phe  
 65 70

<210> 117  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (46)..(46)  
 <223> X=any amino acid

<400> 117

Met Tyr Asn Ile Leu Lys Ala Phe Asp Lys Ile Val His Ile Ile Ser  
 1 5 10 15

Asn Thr Ile Leu Tyr Tyr Tyr Gln Gln His Lys Ala Asn Val Ser Lys  
 20 25 30

Asn Ser Arg Leu Arg Ile Ser Lys Asn Ser Pro Arg Ala Xaa Phe Arg  
 35 40 45

<210> 118  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 118

Met Leu Pro Val Ser Pro Thr Leu Lys Glu Arg Asn Gln Arg Arg Met  
 1 5 10 15

Leu Leu Lys Ser Thr His Leu Ala Ser Val Ser Ser Ala Ser Cys Thr  
                   20                  25                  30

Gln Thr Lys His Thr Gly  
           35

<210> 119  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 119

Met Lys Ile Phe Ile Ile Ile Leu Ser Pro Leu Cys Gly Ile Leu Leu  
 1                  5                  10                  15

Asn Val Leu Glu Ser Leu Lys Phe Ile Phe Lys Cys Glu Ser Leu Leu  
           20                  25                  30

Phe Val Trp Gly Glu Glu Cys Gln Val Gly Ile Met Asn Gln Ala Leu  
           35                  40                  45

Pro Tyr Gln Val Leu Leu Tyr  
           50                  55

<210> 120  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<400> 120

Glu Ser His Thr Leu Gln Val Ile Leu Gly Cys Glu Met Gln Glu Asp  
 1                  5                  10                  15

Asn Ser Thr Glu Gly Tyr Trp Lys Tyr Gly Tyr Asp Gly Gln Asp His  
           20                  25                  30

Leu Glu Phe Cys Pro Asp Thr Leu Asp Trp Arg Ala Ala Glu Pro Arg  
           35                  40                  45

Ala Trp Pro Thr Lys Leu Glu Trp Glu Arg His Lys Ile Arg Ala Arg  
           50                  55                  60

Gln Asn Arg Ala Tyr Leu Glu Arg Asp Cys Pro Ala Gln Leu Gln Gln  
 65                  70                  75                  80

Leu Leu Glu Leu Gly Arg Gly Val Leu Asp Gln Gln  
           85                  90

<210> 121  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (51)..(72)  
 <223> X=any amino acid

<400> 121

Met Ile Lys Val Ser Leu Thr Ser Ala Pro Lys Val Ser Ser Leu Glu  
 1 5 10 15

Gly Thr Asn Arg Arg Glu His Ser Asp Thr Gln Gly Pro Leu Ser Val  
 20 25 30

Pro Trp Lys Pro Ser Asp Leu Cys Arg Pro Ile Ser Val Arg Lys Trp  
 35 40 45

Val Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Thr Thr Gln Ser Ser Trp Gln  
 65 70 75 80

Ile Leu Asn Lys Gly  
 85

<210> 122  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (15)..(15)  
 <223> X=any amino acid

<400> 122

Met Gly Gly Ala Trp Ser Ile Ala Gly Pro Leu Thr Gly Phe Xaa Phe  
 1 5 10 15

Arg Leu Thr Phe  
 20

<210> 123



Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ile Trp Lys Ile Cys  
                   35                                  40                                  45

<210> 125  
 <211> 95  
 <212> PRT  
 <213> Homo sapiens

<400> 125

Met Ser Ser Tyr Met Ile Asn Lys Phe Leu Pro Ile Lys Lys Val Lys  
 1                  5                                  10                                  15

Ile Pro Gly His Lys Val Phe Ser Thr Asp Ile Met Phe Leu Lys Phe  
                   20                                  25                                  30

Val Ser Ile Ala Thr Leu Leu Arg Arg His Thr Asp Ile Ser Glu Asp  
                   35                                  40                                  45

Leu Arg Val Leu Gln Asn Thr Glu Lys Ile Ser Arg Arg Lys Gly Lys  
                   50                                  55                                  60

Gly Glu Thr Lys Lys Leu Lys Glu Gly Leu Thr Tyr Lys Trp Asn Asp  
 65                                  70                                  75                                  80

Leu Lys Arg Asn Gly Glu Pro Gly Glu Thr Gly Val Ser Gln Ser  
                                   85                                  90                                  95

<210> 126  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 126

Met Ile Lys Tyr Phe Lys Ser Asn Asn Tyr Lys Phe Asn Tyr Tyr Lys  
 1                  5                                  10                                  15

Thr Ser Ser Leu Thr Ser Asp Cys Phe Val Leu Ser Phe Lys Ile Ile  
                   20                                  25                                  30

Met Val Cys Leu Arg Val Cys Leu Leu Asn Thr Phe Ala Tyr Leu Pro  
                   35                                  40                                  45

<210> 127  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 127

71

Met Glu Phe Arg Ser Val Ala Gln Val Gly Val Gln Trp Arg Asp Leu  
1 5 10 15

Gly Leu Leu Gln Pro Leu Pro Leu Gln Phe Lys Gln Phe Tyr Cys Leu  
20 25 30

Ser Leu Ser Ser Ser Trp Asp Tyr Arg His Ser Pro Pro His Pro Ala  
35 40 45

Asn Phe Leu Tyr Phe Ala Lys Ile Leu Tyr Ile Ala Lys Arg Phe His  
50 55 60

His Val Gly Gln Ala Gly Leu Ala Leu Leu Thr Ser Gly Asp Pro Pro  
65 70 75 80

Thr Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Leu Ser His Cys Ala  
85 90 95

Gln Pro

<210> 128  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 128

Met Gly Lys Arg Arg Asp Ser Trp Thr Asn Arg Glu Arg Gln Leu Glu  
1 5 10 15

Asn Lys Ser Met Gln Lys Ile Ile Tyr Asn Lys Ile Met His Leu Thr  
20 25 30

Leu Val Thr Lys Gln Ile Ser Tyr Pro His Phe Ser Leu Ser Val Phe  
35 40 45

Val Ser  
50

<210> 129  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 129

Met Leu Leu Phe Val Leu Ser Leu Val Phe Gln Tyr Gln Phe Asn Thr  
1 5 10 15

<210> 130  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 130

Met Ala Leu His Cys Phe Thr Ser Gly Leu Trp Ile Ala Ser Val Arg  
 1 5 10 15

Lys Lys Val Lys Met Lys Glu Lys Val Glu Gln Ile Leu Ala Thr Glu  
 20 25 30

Pro Pro Glu Asp Ser Cys Pro Phe Ser Asn Lys Leu Ser Gly Lys Cys  
 35 40 45

Cys Cys His Gly Ser Thr  
 50

<210> 131  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 131

Met Cys Ala His Lys Gly Lys Ala Met Arg Glu Arg Thr Gln Pro Glu  
 1 5 10 15

Gly Gly His Leu Ala Ser Gln Gly Glu Ala Leu Arg Glu Thr Lys Pro  
 20 25 30

Ala Arg Leu Gly Thr Val Ala His Gly  
 35 40

<210> 132  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 132

Met Ala Leu Ile Leu Leu Glu Ala Leu Cys Phe Gly Leu Ile Ile Cys  
 1 5 10 15

Met Asn Arg Glu Ser Ile Ser Thr Leu Ile Phe Tyr Lys His Trp Met  
 20 25 30

Ser Ile Leu  
 35

<210> 133  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 133

Met Phe Asn Ala Tyr Leu Leu Tyr Asn Asn Gln Val Ile Thr Val Gln  
 1 5 10 15

Ile Lys Gly Pro Lys Cys Phe Arg Tyr Asp Ile Ile Leu Ser Ile Val  
 20 25 30

Asn Trp Thr Lys Glu Thr Leu Tyr Val Gln Gly Ser Val Glu Gln Pro  
 35 40 45

Trp Cys Ser Trp Asp Met Leu Pro Arg Cys  
 50 55

<210> 134  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 134

Met Met Lys Leu Cys Phe Thr Ala Ser Leu Leu His Gly Ala Leu Leu  
 1 5 10 15

Trp His Leu Ala Thr Thr Asn Ser Leu Ile Pro  
 20 25

<210> 135  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 135

Met Glu Leu Pro Ser Met Cys Pro Ile Leu Phe Phe Val Thr Val Phe  
 1 5 10 15

Phe Met Tyr His Thr Pro Ser Cys Pro Ser Ser Val Pro Gln Thr His  
 20 25 30

Gln Ser His Phe Leu Leu Thr Ala Leu Gly Leu Ala Leu Thr  
 35 40 45

<210> 136  
 <211> 77  
 <212> PRT

<213> Homo sapiens

<400> 136

Met Thr Cys Pro Gly Gly Glu Thr Gly Trp Gly Cys Leu Arg Met Asp  
1 5 10 15

Pro Arg Glu Trp Val Ser Ser Pro Asp Gln Gln Asn Leu Arg Met Cys  
20 25 30

Ala Trp Ile Gln Pro His Leu Lys Leu Gly Leu His Phe Val Ser Gly  
35 40 45

Ala Pro Asn Ala Leu Cys Leu Gly Cys Leu Tyr Ser Trp His Thr Gly  
50 55 60

Glu Ala Leu Ser Pro Ala Gly Pro Gly Cys Cys Cys Ser  
65 70 75

<210> 137

<211> 37

<212> PRT

<213> Homo sapiens

<400> 137

Met Glu Gln Glu Ser Val Pro Ser Met Ser Leu Phe Thr Arg Ile Leu  
1 5 10 15

Ser Gln Pro Ser Leu Phe Pro Trp Gln Ala Leu His Arg Glu Thr Gly  
20 25 30

Lys Arg Ser Thr Val  
35

<210> 138

<211> 59

<212> PRT

<213> Homo sapiens

<400> 138

Met Leu Leu Pro Leu Pro Ala Ile Ser Phe Pro Cys Asn Ser Leu Phe  
1 5 10 15

His Pro Ala Asp Ala Ser Ser Leu Ser Trp Leu Ser Ser Lys Ser Tyr  
20 25 30

Pro Leu Gly Lys Leu Thr Arg Met Leu Gln Ser Asp Gly Val Ser Pro  
35 40 45

Pro Gly Pro Pro Gln Thr Leu Tyr Phe Leu Leu  
 50 55

<210> 139  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 139

Met Asp Asn Lys Cys Leu Thr Leu Thr Asn Tyr Leu Ala Ile Met Gly  
 1 5 10 15

Phe Phe Asp Gln Lys Ser Ser Lys Arg Val Trp Trp Gly Leu Arg Asp  
 20 25 30

Pro Ser Ser Leu Pro Lys Asn Met Lys Ser Phe His Phe Gln Tyr Val  
 35 40 45

Lys Thr  
 50

<210> 140  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 140

Met Arg Val Val Phe Lys Ile Thr Phe Cys Arg Val Val Cys Ser Thr  
 1 5 10 15

Leu Met Leu Lys Gly Ser His Leu Pro Gln Pro Ile Lys Leu Cys Cys  
 20 25 30

Leu Cys Ser Ala Phe Tyr His Lys Asn Met Thr Phe Lys His Lys Asn  
 35 40 45

Thr Leu Tyr Ser Thr Thr Lys Asn Arg Asn Asp Ile Tyr Leu His Cys  
 50 55 60

Phe Pro Ile Ser Leu His Leu Tyr  
 65 70

<210> 141  
 <211> 863  
 <212> PRT  
 <213> Homo sapiens

<400> 141

Met	Pro	Glu	Gln	His	Lys	Asp	Pro	Arg	Val	Gln	Glu	Asn	Pro	Asp	Asp	1	5	10	15
Gln	Arg	Thr	Val	Pro	Glu	Val	Thr	Gly	Asp	Ala	Arg	Ser	Ala	Phe	Trp	20	25	30	
Pro	Leu	Arg	Asp	Asn	Gly	Gly	Pro	Ser	Pro	Phe	Val	Pro	Arg	Pro	Gly	35	40	45	
Pro	Leu	Gln	Thr	Asp	Leu	His	Ala	Gln	Ser	Ser	Glu	Ile	Arg	Tyr	Asn	50	55	60	
His	Thr	Ser	Gln	Thr	Ser	Trp	Thr	Ser	Ser	Ser	Thr	Lys	Arg	Asn	Ala	65	70	75	80
Ile	Ser	Ser	Ser	Tyr	Ser	Ser	Thr	Gly	Gly	Leu	Pro	Gly	Leu	Lys	Gln	85	90	95	
Arg	Arg	Gly	Pro	Ala	Ser	Ser	Arg	Cys	Gln	Leu	Thr	Leu	Ser	Tyr	Ser	100	105	110	
Lys	Thr	Val	Ser	Glu	Asp	Arg	Pro	Gln	Ala	Val	Ser	Ser	Gly	His	Thr	115	120	125	
Arg	Cys	Glu	Lys	Gly	Ala	Asp	Thr	Ser	Pro	Gly	Gln	Thr	Ile	Ala	Pro	130	135	140	
Thr	Gly	Gly	Ser	Pro	Arg	Ser	His	Asp	Ser	Arg	Pro	Arg	Arg	Arg	Lys	145	150	155	160
Ile	Pro	Leu	Leu	Pro	Arg	Arg	Arg	Gly	Glu	Pro	Leu	Met	Leu	Pro	Pro	165	170	175	
Pro	Leu	Glu	Leu	Gly	Tyr	Arg	Val	Thr	Ala	Glu	Asp	Leu	His	Leu	Glu	180	185	190	
Lys	Glu	Thr	Ala	Phe	Gln	Arg	Ile	Asn	Ser	Ala	Leu	His	Val	Glu	Asp	195	200	205	
Lys	Ala	Ile	Pro	Asp	Cys	Arg	Pro	Ser	Arg	Pro	Ser	His	Thr	Leu	Ser	210	215	220	
Ser	Leu	Ala	Thr	Gly	Ala	Ser	Gly	Gly	Pro	Pro	Val	Ser	Lys	Ala	Pro	225	230	235	240

Thr	Met	Asp	Ala	Gln	Gln	Asp	Arg	Pro	Lys	Ser	Gln	Asp	Cys	Leu	Gly
				245					250					255	
Leu	Val	Ala	Pro	Leu	Ala	Ser	Ala	Ala	Glu	Val	Pro	Ala	Thr	Ala	Pro
			260					265					270		
Val	Ser	Gly	Lys	Lys	His	Arg	Pro	Pro	Gly	Pro	Leu	Phe	Ser	Ser	Ser
		275					280					285			
Asp	Pro	Leu	Pro	Ala	Asn	Ser	Ser	His	Ser	Arg	Asp	Ser	Ala	Gln	Val
	290					295					300				
Thr	Ser	Met	Ile	Pro	Ala	Pro	Phe	Thr	Ala	Ala	Ser	Arg	Asp	Ala	Gly
305					310					315					320
Met	Arg	Arg	Thr	Arg	Ser	Ala	Pro	Ala	Ala	Ala	Ala	Ala	Ala	Pro	Pro
				325					330					335	
Pro	Ser	Thr	Leu	Asn	Pro	Thr	Ser	Gly	Ser	Leu	Leu	Asn	Ala	Val	Asp
			340					345					350		
Gly	Gly	Pro	Ser	His	Phe	Leu	Ala	Ser	Ala	Thr	Ala	Ala	Ala	Arg	Ala
		355					360					365			
Gln	Arg	Ser	Glu	Val	Arg	Tyr	Asn	Gln	Arg	Ser	Gln	Thr	Ser	Arg	Thr
	370					375					380				
Arg	Ser	Cys	Leu	Lys	Arg	Asn	Ala	Ser	Ser	Ser	Ser	His	Ser	Ser	Thr
385					390					395					400
Glu	Gly	Leu	Gln	Glu	Val	Lys	Arg	Arg	Arg	Gly	Pro	Ala	Ser	Ser	His
				405					410					415	
Cys	Gln	Leu	Ala	His	Ser	Ser	Ser	Asn	Thr	Val	Ser	Glu	Asp	Gly	Pro
			420					425					430		
Gln	Ala	Val	Ser	Ser	Gly	His	Arg	Cys	Glu	Asn	Lys	Ala	Gly	Thr	Ala
		435					440					445			
Pro	Gly	Gln	Thr	Leu	Ala	Pro	Arg	Gly	Gly	Ser	Pro	Arg	Ser	Gln	Ala
	450					455					460				
Ser	Arg	Pro	His	Ile	Asn	Thr	Ala	Leu	His	Val	Glu	Asp	Lys	Ala	Ile
465					470					475					480
Ser	Asp	Cys	Arg	Pro	Ser	Arg	Pro	Ser	His	Thr	Leu	Ser	Ser	Leu	Ala

485

490

495

Thr Gly Ala Ser Gly Gly Pro Pro Val Ser Lys Ala Pro Thr Met Asp  
500 505 510

Ala Gln Gln Asp Arg Pro Lys Ser Gln Asp Ser Leu Gly Leu Leu Ala  
515 520 525

Pro Leu Ala Ser Ala Ala Glu Val Pro Ser Thr Ala Pro Val Ser Gly  
530 535 540

Lys Lys His Arg Pro Pro Gly Pro Leu Phe Ser Ser Ser Asp Pro Leu  
545 550 555 560

Pro Ala Thr Ser Tyr His Ser Arg Asp Thr Ala Gln Val Thr Ser Leu  
565 570 575

Ile Pro Ala Thr Phe Thr Ala Ala Ser Arg Asp Ala Gly Met Arg Arg  
580 585 590

Thr Arg Ser Ala Pro Ala Ala Ala Thr Ala Ala Pro Pro Pro Ser Thr  
595 600 605

Leu Asn Asn Thr Ser Gly Ser Leu Leu Asn Ala Val Asp Gly Gly Pro  
610 615 620

Ser His Phe Leu Ala Ser Ala Thr Ala Ala Ala Arg Ala Gln Arg Ser  
625 630 635 640

Glu Val Arg Tyr Asn Gln Arg Ser Gln Thr Ser Arg Thr Arg Ser Cys  
645 650 655

Leu Lys Arg Asn Ala Ser Ser Ser Ser Ser Ser His Ser Ser Thr Glu  
660 665 670

Gly Leu Gln Glu Val Lys Arg Arg Arg Gly Pro Ala Ser Ser His Cys  
675 680 685

Gln Leu Ala His Ser Ser Ser Asn Thr Val Ser Glu Asp Gly Pro Gln  
690 695 700

Ala Val Ser Ser Gly His Arg Cys Glu Asn Lys Ala Gly Thr Ala Pro  
705 710 715 720

Gly Gln Thr Leu Ala Pro Arg Gly Gly Ser Pro Arg Ser Gln Ala Ser  
725 730 735

Arg Pro His Ile Asn Ser Ala Leu His Val Glu Asp Lys Ala Ile Ser  
740 745 750

Asp Cys Arg Pro Ser Arg Pro Ser His Thr Leu Ser Ser Leu Ala Thr  
755 760 765

Gly Ala Ser Gly Gly Pro Pro Val Ser Lys Ala Pro Thr Met Asp Ala  
770 775 780

Gln Gln Asp Arg Pro Lys Ser Gln Asp Cys Leu Gly Leu Leu Ala Pro  
785 790 795 800

Leu Ala Ser Ala Ala Glu Val Phe Ser Thr Ala Pro Val Ser Gly Lys  
805 810 815

Lys His Arg Pro Pro Gly Pro Leu Phe Ser Ser Ser Asp Pro Leu Pro  
820 825 830

Ala Thr Ser Ser His Ser Gly Asp Ser Ala Gln Asp Thr Ser Leu Ile  
835 840 845

Pro Ala Pro Phe Thr Pro Ala Ser Arg Asp Ala Gly Ile Arg Arg  
850 855 860

<210> 142  
<211> 29  
<212> PRT  
<213> Homo sapiens

<400> 142

Met Ser Tyr Leu Ser Leu Leu Leu Ile Ser Ile Phe Met Val Cys Tyr  
1 5 10 15

Phe Lys Arg Asn Ser Phe Pro Ile Thr Ile Leu Phe Ser  
20 25

<210> 143  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 143

Met Pro Trp Pro Met Pro Ile Cys Thr Gly Thr Gln Gly Val Leu Thr  
1 5 10 15

His Arg Gln Gly Pro Pro Pro Ala Ala Val Gly Val Ser Pro His Thr

80

20

25

30

<210> 144  
<211> 29  
<212> PRT  
<213> Homo sapiens

<400> 144

Met Asn Ala Phe Leu Leu Glu Arg Met Thr Glu Ser Gln Ala Met Asp  
1 5 10 15

Ile Gln Thr Cys Ile Phe Gln Thr Leu Leu Glu Asn Lys  
20 25

<210> 145  
<211> 48  
<212> PRT  
<213> Homo sapiens

<400> 145

Met Ile Val Thr Asn Thr Ile Leu Lys Phe Ile His Lys Lys Pro Thr  
1 5 10 15

Thr Ile Thr Pro Thr Lys Gln His Gly Ile Ile Phe Ser Val Pro Glu  
20 25 30

Ala Lys Val Arg Ala Leu Leu Cys Phe Leu Leu Arg Met Pro Ser Pro  
35 40 45

<210> 146  
<211> 55  
<212> PRT  
<213> Homo sapiens

<400> 146

Gly Gln Ala Leu Trp Leu Met Pro Val Ile Pro Val Val Ala Lys Ala  
1 5 10 15

Glu Gly Lys Asp His Leu Arg Pro Gly Val Ala Asn Gln Pro Gly Gln  
20 25 30

His Ser Lys Thr Leu Phe Leu Gln Lys Lys Asn Phe Ala Lys Leu Ala  
35 40 45

Glu His Gly Gly Ala Cys Leu  
50 55

<210> 147

<211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 147

Met Ser Arg Phe Arg Ile Gln Thr Ser Glu Thr Ala Pro Ile Pro Leu  
 1 5 10 15

Val Ser His Pro His Thr Pro Leu Ser Asn Asn Asn Asn Leu His Leu  
 20 25 30

Gly Asn Val Cys Tyr Val Pro Gly His Thr Gly Ile Ile Ser Cys Thr  
 35 40 45

Pro His Arg His Leu Ile Lys  
 50 55

<210> 148  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 148

Met Gln Gly Leu His Leu Pro Gln Gly Leu Gly Thr Cys Tyr Ser Ile  
 1 5 10 15

Cys Leu Gln Cys Leu Ser Pro His Gly Tyr Phe Phe Val Ala Val Gly  
 20 25 30

Leu Ser Ser Asn Val Met Ser Pro Thr Ser Leu Pro Lys Ala Val Leu  
 35 40 45

Pro Thr  
 50

<210> 149  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 149

Met Leu Pro Val Asn Ile Ser His Pro Leu Ser Arg Gly Asn Pro Leu  
 1 5 10 15

Leu Ser Ser Lys Phe Ser Lys Phe Phe Leu Ile Glu Phe Ser Gln  
 20 25 30

<210> 150

<211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 150

Met Asp Tyr Ser Leu Ser Phe Asp Asn Tyr Thr Trp Gly Phe Gly Glu  
 1 5 10 15

Pro Arg Ile Lys Val Gln Ser Phe Asn Asp Leu Leu Ala Pro Gly Leu  
 20 25 30

Thr Gln Glu His  
 35

<210> 151  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 151

Met Ile Arg Ser Lys Gly Thr Asn Phe Gln Ile Leu Ala Glu Leu Phe  
 1 5 10 15

Lys Gly Met Asp Phe Leu Trp Leu Gln Leu Ala Arg Leu Phe Gln Lys  
 20 25 30

Ala Cys Pro Trp Leu Thr Ala Cys Leu Ala Gln Phe Leu Arg Ser Pro  
 35 40 45

Leu Val Met Glu Asn Arg Ala Asp Arg Ile Gln Met Ala Arg Phe His  
 50 55 60

Arg Gly Gln Gly Gly Pro Gln Ser Ala Asn Gln Gly Arg Leu Arg Pro  
 65 70 75 80

Glu Lys Gly Ile Ser  
 85

<210> 152  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 152

Met Asp Arg Phe Leu Asn Ser Lys Ala Arg Arg Leu Gly Ser Cys Ser  
 1 5 10 15

His Pro Ala Phe Tyr Leu Leu Cys Val Pro Asp Glu Asp Thr Ser Cys

20

25

30

Ser Thr Met Tyr Leu Pro Leu Lys Arg Arg Ala Asp Pro Asp Gln Leu  
 35 40 45

Phe Ser Asp Leu Leu Gly Gly Thr Gln Arg Leu Trp Arg Leu Trp Pro  
 50 55 60

Ser Leu Ala Ser Val Glu Ser Gly Leu  
 65 70

&lt;210&gt; 153

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (5)..(43)

&lt;223&gt; X=any amino acid

&lt;400&gt; 153

Met Gln Cys Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Lys Ile Lys Phe Gly  
 35 40 45

Met Lys Gln Glu Leu Ser Trp Thr Ile Tyr Asn Leu Leu Arg Tyr  
 50 55 60

&lt;210&gt; 154

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 154

Met Arg Cys Leu Leu Ala Asp Ser Ser Leu Gln Met Gln Pro Gly Asp  
 1 5 10 15

Val Thr Leu Arg Leu Glu Ser Cys Gly Ser Asn Pro Arg Gln Arg Gln  
 20 25 30

Leu His Gln Val Leu Val Trp Val Arg Asn Arg Gly Lys Gly  
 35 40 45

<210> 155  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (22)..(22)  
 <223> X=any amino acid

<400> 155

Met Pro Pro Arg Gly Trp Ala Cys Pro Ser Ser Gly Pro Pro Ala Pro  
 1 5 10 15

Gly Pro Gly Arg Trp Xaa Arg Ala Ala Ala Gly Gly Leu Arg Arg Thr  
 20 25 30

Arg Cys Asp Trp Leu Pro Leu Arg Arg Thr Gln Met Ser Leu Arg Arg  
 35 40 45

Ile Asp Leu Leu Pro Ser Pro Ala Gly Gln Ala Gln Ala Gly Ser Glu  
 50 55 60

Asn Tyr Leu Pro Leu Phe Ile Ser  
 65 70

<210> 156  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (10)..(10)  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> (13)..(14)  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> (16)..(16)  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> (20)..(20)

<223> X=any amino acid

<400> 156

Met Val Phe Ile Phe Ser Thr Thr Ile Xaa Phe Phe Xaa Xaa Glu Xaa  
1 5 10 15

Glu Ser Cys Xaa  
20

<210> 157

<211> 66

<212> PRT

<213> Homo sapiens

<400> 157

Met Ser Leu Thr Tyr Ser Trp Lys Lys Ser Lys Val Thr Lys Phe Asn  
1 5 10 15

Leu Ser Thr Leu Arg Met Thr Val Thr Asn Lys Asn Arg Thr Val Gln  
20 25 30

Lys Cys Ala Lys Asp Thr Arg Lys Leu Asn Asn Ile Asn Ser Met Ile  
35 40 45

Ile Val Ile Leu Tyr Thr Met Glu Ser Lys Gln Ile Phe Phe His Gly  
50 55 60

Asn Ser  
65

<210> 158

<211> 41

<212> PRT

<213> Homo sapiens

<400> 158

Met Met Thr Gly Glu Ala Arg Glu Ser Gln Ile Ala Leu Tyr Lys Gln  
1 5 10 15

Arg Phe Arg Glu Phe Arg Glu Glu Gly Arg Thr Ile Tyr Lys Gly Arg  
20 25 30

Trp Lys Arg Ser His Leu Ala Glu Gly  
35 40

<210> 159

<211> 31

<212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (7)..(7)  
 <223> X=any amino acid

<400> 159

Met Leu Glu Leu Gly Leu Xaa Pro Lys Leu Thr Ser Glu Tyr Arg Phe  
 1 5 10 15

Pro Pro Asn Cys Met Ile Leu His Ile Trp Ser Gln Leu Glu Val  
 20 25 30

<210> 160  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 160

Met Tyr Ile Tyr Ile Cys His His Phe Lys Asn Gln Ala Phe Lys Val  
 1 5 10 15

Lys Leu Ser Phe Pro His Ile Phe Phe His Ser Ile Phe Tyr Gln Tyr  
 20 25 30

Arg His Ser Leu Leu Leu Leu Ser Phe Gln Phe Pro Ile Ile Ser Ser  
 35 40 45

His Pro Ile Phe Cys Ala Ser Ser Val Phe Lys Thr His Ser Pro Ser  
 50 55 60

Ala Ala Met Ala Pro Thr Ile Ile Phe Ile Thr  
 65 70 75

<210> 161  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (7)..(13)  
 <223> X=any amino acid

<400> 161

Met Lys Arg Gly Asn Leu Xaa Xaa Xaa Xaa Xaa Xaa Gly Thr Pro  
 1 5 10 15

Cys Lys Asp Trp Ser His Thr Ala Met Ser Gln Glu Pro Pro Val Leu  
                   20                                  25                                  30

Val Arg Val Leu  
                   35

<210> 162  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (9)..(9)  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> (20)..(20)  
 <223> X=any amino acid

<400> 162

Met Trp Ala Ala Trp Arg Arg Arg Xaa Asn Gly Phe Phe Pro Arg Ile  
   1                  5                                  10                                  15

Pro Gly Lys Xaa Arg Gly Pro Asn  
                   20

<210> 163  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 163

Met Cys His Ser Leu Tyr Arg Phe Leu Asn Cys His Ser Arg Tyr Tyr  
   1                  5                                  10                                  15

Ile Val Tyr Thr Tyr Leu Thr Ile Phe Tyr Trp Cys His His Phe  
                   20                                  25                                  30

<210> 164  
 <211> 134  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (2)..(22)  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> (39)..(67)  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> (79)..(113)  
 <223> X=any amino acid

<400> 164

Met Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Ala Gly Lys Arg Glu Asn Gln Lys Asp Ser  
 20 25 30

Ser Val Arg Arg Thr Trp Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 50 55 60

Xaa Xaa Xaa Arg Phe Ser Pro Arg Ala Tyr Arg Lys Lys Val Xaa Xaa  
 65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 85 90 95

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 100 105 110

Xaa Arg His Asn Arg Lys Leu Ile His Leu Ser Ser Lys Phe Leu Ile  
 115 120 125

Ile Asn Val Ile Ala Ser  
 130

<210> 165  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 165

Met Ser Lys Val Asp Leu Phe Ile Thr Asp Ser Phe Lys Lys Phe Asn  
 1 5 10 15

Gln Tyr Leu Leu Ala Thr Tyr Ser Thr Ser Gly Thr Gln Gly Ile Trp  
                   20                  25                  30

Ser Thr Thr Met Lys Lys Arg Asp Trp Thr Leu Lys Glu His Arg Ser  
           35                  40                  45

Cys His Phe  
       50

<210> 166  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 166

Met Ser Asp Ser Arg Leu Cys Ser Cys Phe Leu His Thr Leu Ile Phe  
   1                  5                  10                  15

Leu Asn Ile Ser Lys Ile Gln Ser Gly Ser Lys Ile Thr Cys Lys Asn  
           20                  25                  30

Ile Leu Ala Gln Glu Phe Asp Arg Leu Lys Ile Asn Tyr Leu Lys Tyr  
           35                  40                  45

Ile Lys Gln Glu Val Tyr Leu Leu Tyr Ser Met Tyr  
       50                  55                  60

<210> 167  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 167

Met Val Phe Gln Lys Thr Ser Leu Tyr Ser Asn Asn Ile Leu Leu  
   1                  5                  10                  15

<210> 168  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 168

Cys Pro Ala Ala Tyr Thr Val Phe Leu Thr Arg Ile Ile Val Lys Tyr  
   1                  5                  10                  15

Tyr Leu Asn Arg Gly Leu Phe Ser Glu Thr Pro Ser Asn Leu Lys Val  
           20                  25                  30

Glu Glu Lys Gly Trp Val Trp Trp Leu Met Pro Val Thr Pro Ala Leu  
           35                                  40                                  45

Trp Glu Ala Glu Ala Gly Gly Ser Leu Glu Leu Ser Leu Arg Pro Gly  
       50                                  55                                  60

Trp Ala Thr Pro Ser Leu Pro Lys Asn Thr Lys Met Ser Gln Ala Trp  
   65                                  70                                  75                                  80

Trp Cys Thr Pro Val Val Pro Ala Ala Leu Gly Ala Glu Val Gly Gly  
                                   85                                  90                                  95

Arg Leu Gly Pro Arg Arg Trp Arg Leu Gln  
                                   100                                  105

<210> 169  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 169

Met Gly Pro Asp Arg Leu Lys Gln Lys Ser Asn Thr Ala Val Val Ser  
   1                                  5                                  10                                  15

Arg Trp Ile

<210> 170  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (3)..(4)  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> (13)..(13)  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> (16)..(16)  
 <223> X=any amino acid

<400> 170

Met Asp Xaa Xaa Lys Trp Arg Met Arg Arg Gln Pro Xaa Ile Asn Xaa  
 1 5 10 15

Met Tyr Gln Thr Val Thr Ile Cys Glu Glu Tyr Cys Val Tyr Thr Asn  
 20 25 30

Arg Lys Gln Leu Lys Ala Phe Asn Met Cys Gly Trp Gly Glu Arg  
 35 40 45

<210> 171

<211> 197

<212> PRT

<213> Homo sapiens

<400> 171

Gln Glu Ala Gln Ile Met Lys Lys Leu Arg His Asp Lys Leu Val Pro  
 1 5 10 15

Leu Tyr Ala Val Val Ser Glu Glu Pro Ile Tyr Ile Val Thr Glu Phe  
 20 25 30

Met Ser Lys Gly Ala Tyr Ser Leu Ser Ile Arg Asp Trp Asp Glu Ile  
 35 40 45

Arg Gly Asp Asn Val Lys His Tyr Lys Ile Arg Lys Leu Asp Asn Gly  
 50 55 60

Gly Tyr Tyr Ile Thr Thr Arg Ala Gln Phe Asp Thr Leu Gln Lys Leu  
 65 70 75 80

Val Lys His Tyr Thr Glu His Ala Asp Gly Leu Cys His Lys Leu Thr  
 85 90 95

Thr Val Cys Pro Thr Val Lys Pro Gln Thr Gln Gly Leu Ala Lys Asp  
 100 105 110

Ala Trp Glu Ile Pro Arg Glu Ser Leu Arg Leu Glu Val Lys Leu Gly  
 115 120 125

Gln Gly Cys Phe Gly Glu Val Trp Met Gly Thr Trp Asn Gly Thr Thr  
 130 135 140

Lys Val Ala Ile Lys Thr Leu Lys Pro Gly Thr Met Met Pro Glu Ala  
 145 150 155 160

Phe Leu Gln Glu Ala Gln Ile Met Lys Lys Leu Arg His Asp Lys Leu

165

170

175

Val Pro Leu Tyr Ala Val Val Ser Glu Glu Pro Ile Tyr Ile Val Thr  
 180 185 190

Glu Phe Met Ser Lys  
 195

<210> 172  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (28)..(49)  
 <223> X=any amino acid

<400> 172

Met Cys Ile Met His Ile Asn Thr Phe Asn Leu Cys Asn His Leu Met  
 1 5 10 15

Arg Trp Leu Leu Leu Lys Ser Pro Leu Cys Thr Xaa Xaa Xaa Xaa Xaa  
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 35 40 45

Xaa Gln Lys Pro Lys Pro Thr Val His Gly Ile  
 50 55

<210> 173  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (14)..(21)  
 <223> X=any amino acid

<400> 173

Met Lys Pro Ile Arg Gln Leu Val Pro Phe Thr Leu Glu Xaa Xaa Xaa  
 1 5 10 15

Xaa Xaa Xaa Xaa Xaa Leu Tyr Leu Glu His Leu Thr Cys Arg Lys Arg  
 20 25 30

Arg Gly Lys Thr Phe Leu Gly Lys Arg Lys Ala Val Ala Val Pro Lys  
 35 40 45

Ser Lys His Phe Trp Gln Gly Phe  
 50 55

<210> 174  
 <211> 104  
 <212> PRT  
 <213> Homo sapiens

<400> 174

Met Leu Lys His Leu Gln Val Leu Asp Leu His Gln Cys Ser Leu Thr  
 1 5 10 15

Ala Asp Asp Val Met Ser Leu Thr Gln Val Ile Pro Leu Leu Ser Asn  
 20 25 30

Leu Gln Glu Leu Asp Leu Ser Ala Asn Lys Lys Met Gly Ser Ser Ser  
 35 40 45

Glu Asn Leu Leu Ser Arg Leu Arg Phe Leu Pro Ala Leu Lys Ser Leu  
 50 55 60

Val Ile Asn Asn Cys Ala Leu Glu Ser Glu Thr Phe Thr Ala Leu Ala  
 65 70 75 80

Glu Ala Ser Val His Leu Ser Ala Leu Glu Val Phe Asn Leu Ser Trp  
 85 90 95

Glu Gln Val Cys Trp Trp Ala Thr  
 100

<210> 175  
 <211> 490  
 <212> PRT  
 <213> Homo sapiens

<400> 175

Met Ser Gln Thr Arg Lys Lys Thr Ser Ser Glu Gly Glu Thr Lys Pro  
 1 5 10 15

Gln Thr Ser Thr Val Asn Lys Phe Leu Arg Gly Ser Asn Ala Glu Ser  
 20 25 30

Arg Lys Glu Asp Asn Asp Leu Lys Thr Ser Asp Ser Gln Pro Ser Asp  
 35 40 45

Trp	Ile	Gln	Lys	Thr	Ala	Thr	Ala	Lys	Pro	Leu	Ser	Ser			
50								60							
Glu	Met	Glu	Trp	Arg	Ser	Ser	Met	Glu	Lys	Asn	Glu	His	Phe	Leu	Gln
65					70					75					80
Lys	Leu	Gly	Lys	Lys	Ala	Val	Asn	Lys	Cys	Leu	Asp	Leu	Asn	Asn	Cys
				85					90					95	
Gly	Leu	Thr	Thr	Ala	Asp	Met	Lys	Glu	Met	Gly	Glu	Ala	Phe	Glu	Met
			100					105					110		
Ile	Pro	Glu	Leu	Glu	Glu	Leu	Asn	Leu	Ser	Trp	Asn	Ser	Lys	Val	Gly
		115					120					125			
Gly	Asn	Leu	Pro	Leu	Ile	Leu	Gln	Lys	Phe	Gln	Lys	Gly	Ser	Lys	Ile
	130					135					140				
Gln	Met	Ile	Glu	Leu	Val	Ala	Cys	Ser	Leu	Thr	Ser	Glu	Asp	Gly	Thr
145					150					155					160
Phe	Leu	Gly	Gln	Leu	Leu	Pro	Met	Leu	Gln	Ser	Leu	Glu	Val	Leu	Asp
				165					170					175	
Leu	Ser	Ile	Asn	Arg	Asp	Ile	Val	Gly	Ser	Leu	Asn	Ser	Ile	Ala	Gln
			180					185					190		
Gly	Leu	Lys	Ser	Thr	Ser	Asn	Leu	Lys	Val	Leu	Lys	Leu	His	Ser	Cys
		195					200					205			
Gly	Leu	Ser	Gln	Lys	Ser	Val	Lys	Ile	Leu	Asp	Ala	Ala	Phe	Arg	Tyr
	210					215					220				
Leu	Gly	Glu	Leu	Arg	Lys	Leu	Asp	Leu	Ser	Cys	Asn	Lys	Asp	Leu	Gly
225					230					235					240
Gly	Gly	Phe	Glu	Asp	Ser	Pro	Ala	Gln	Leu	Val	Met	Leu	Lys	His	Leu
				245					250					255	
Gln	Val	Leu	Asp	Leu	His	Gln	Cys	Ser	Leu	Thr	Ala	Asp	Asp	Val	Met
			260					265					270		
Ser	Leu	Thr	Gln	Val	Ile	Pro	Leu	Leu	Ser	Asn	Leu	Gln	Glu	Leu	Asp
		275					280					285			

Leu Ser Ala Asn Lys Lys Met Gly Ser Ser Ser Glu Asn Leu Leu Ser  
 290 295 300

Arg Leu Arg Phe Leu Pro Ala Leu Lys Ser Leu Val Ile Asn Asn Cys  
 305 310 315 320

Ala Leu Glu Ser Glu Thr Phe Thr Ala Leu Ala Glu Ala Ser Val His  
 325 330 335

Leu Ser Ala Leu Glu Val Phe Asn Leu Ser Trp Asn Lys Cys Val Gly  
 340 345 350

Gly Asn Leu Lys Leu Leu Leu Glu Thr Leu Lys Leu Ser Met Ser Leu  
 355 360 365

Gln Val Leu Arg Leu Ser Ser Cys Ser Leu Val Thr Glu Asp Val Ala  
 370 375 380

Leu Leu Ala Ser Val Ile Gln Thr Gly His Leu Ala Lys Leu Gln Lys  
 385 390 395 400

Leu Asp Leu Ser Tyr Asn Asp Ser Ile Cys Asp Ala Gly Trp Thr Met  
 405 410 415

Phe Cys Gln Asn Val Arg Phe Leu Lys Glu Leu Ile Glu Leu Asp Ile  
 420 425 430

Ser Leu Arg Pro Ser Asn Phe Arg Asp Cys Gly Gln Trp Phe Arg His  
 435 440 445

Leu Leu Tyr Ala Val Thr Lys Leu Pro Gln Ile Thr Glu Ile Gly Met  
 450 455 460

Lys Arg Trp Ile Leu Pro Ala Ser Gln Glu Glu Glu Leu Glu Cys Phe  
 465 470 475 480

Asp Gln Asp Lys Lys Lys Lys His Ser Leu  
 485 490

<210> 176

<211> 136

<212> PRT

<213> Homo sapiens

<400> 176

Met His Leu Leu Ser Asp Gly Lys Glu Gly Ser Thr Tyr Lys Pro Phe  
 1 5 10 15

Gln Glu Ile Ser Ser Ser Ser Lys Ser Gly Arg Lys Gly Ser Lys Ala  
                   20                  25                  30

Thr Ile Ser Phe Met Ser Ala Val Val Asn Pro Gln Leu Phe Lys Ser  
           35                  40                  45

Arg His Leu Leu Thr Ala Phe Leu Pro Ser Phe Cys Arg Lys Cys Ser  
       50                  55                  60

Phe Phe Ser Ile Leu Asp Leu His Ser Ile Ser Glu Leu Arg Gly Leu  
   65                  70                  75                  80

Ala Val Ser Glu Val Ala Val Phe Cys Ile Gln Ser Leu Gly Trp Glu  
                   85                  90                  95

Ser Leu Val Leu Arg Ser Leu Ser Ser Phe Leu Leu Ser Ala Leu Glu  
                   100                  105                  110

Pro Leu Arg Asn Leu Leu Thr Val Glu Val Trp Gly Leu Val Ser Pro  
           115                  120                  125

Ser Glu Glu Val Phe Phe Leu Val  
   130                  135